

STATEBANKOFINDIA

INVITES ONLINE E-TENDERS

FOR

PROPOSED ELECTRICAL WORK OF SBIRAKHOLIBRANCH, DIST.: DADRA AND NAGAR HAVELI, RBO-4, VALSAD.

FROM THE SBI AHMEDABAD EMPANELLED ELECTRICALCONTRACTORS UNDER THE CATEGORY OF WORKS 5LAKHS AND ABOVE ASPER THE LISTENCLOSED

THELASTDATEOFSUBMISSIONOFONLINETENDERS: 03.03.2025 UPTO 03:00 PM

PART-A:TECHNICALBID

TENDERSUBMITT	EDBY:	
NAME	:	
ADDRESS	:	
DATE	:	
ARCHITECT : SO	PAN	
	OWDHURY /ING-B NANPURA, AT- 395001 09825117854 ansSURAT@gmail.com	



Tender ID AHMSAO493

NOTICEINVITINGTENDER(NIT)

SBI throughitsArchitect-Ar.AJAY CHOWDHURY ,invitesOnlineE-tenderintwobidsystem,fromtheBank's Empaneled Electrical contractors of Ahmedabad Circle for Electrical Work at SBI RAKHOLI BRANCH, DIST.- DADRA AND NAGAR HAVELI, RBO-4VALSAD.

1	NameofWork	PROPOSEDELECTRICALWORKOFSBIR A K H O L I BRANC H, DIST DADRA AND NAGAR HAVELI, RBO-4VALSAD.
2	Timeallowedforcompletion	30daysfromdateofacceptanceofwork order.
3	EarnestMoneyDeposit	<i>Rs. 3,700/-</i> by means of Demand Draft / Pay Order from anyscheduledNationalizedBankdrawninfavorofState Bank Of India and payable at SURAT.(Contractors registeredwith'MSMEUDYAM'neednotsubmitEMD. Instead of EMD, they should submit registration certificate of 'MSME UDYAM')
4	Estimate Amount of Work	3,79,040.00
5	InitialSecurityDeposit	NA(asperGovernmentdirectives)
6	TotalSecurityDeposit	5% of the final bill amount including ISD
7	Costoftender document.	NIL
8	Start and end date for downloadingoftender documentsformBank'swebsite	21.02.2025 to 03.03.2025 atwww.sbi.co.inunder <link/> <sblinthenews>procurementnews.</sblinthenews>
9	Lastdate&timeforsubmission of online Technical bid and SealedPriceBid	03.03.2025 upto03:00 PM
10	Address at which Hard copy of Process Compliance Form and EMD or MSME Udhyam Certificatehastobesubmitted	The Asst Gen Manager State Bank of India RBO-4IV,VALSAD396001
11	Date and time of opening of onlineTechnicalbid&Sealed Pricebid	03.03.2025 up to 03:30 PM
12	Agency for arranging online Bidding(Technicalbidandsealed price bid)	M/s.AntaresSystemsLimited, Mr.KushalBose MobileNo.:+919674758719 e-Mail: <u>kushal.b@antaressystems.com</u>
13	Defectliabilityperiod.	12monthsfromthedateofVirtual Completion
14	Validityofoffer.	90daysfromthedateofopeningofPrice-bid



15	Liquidateddamages	0.50% of contract amount perweeks subject to max.5% of contract value or final bill value.	
16	ValueofInterim Certificate	No advance on materials / plant / machinery or mobilization advance shall be paid under any circumstancesOnlyfulland final payment shallbemade after satisfactory completion of work.	
17	Insurance	The contractor shall obtain all necessary insurance policies as per the governing laws applicable at the center& shall require to produce the original policy of Insurance & receiptof the premium as applicable in the matter to the Architect/Bank.	
18	WaterandElectricity	If contractorispermitted to use SBIs our ceof water & electricity, the SBI will recover @ 0.5% of contract amount from the final bill of contractor. However further distribution & extension & light fixtures etc. With required MCBs witches, switch boards, lamp, tube etc. shall be arranged by the contractor at their own cost within the accepted tender amount. Bank will recover 0.5% of the final bill amount towards consumption of water & electricity.	
19	Rates	Rates quoted shall be inclusive of all existing & future (including variation) taxes, duties, levies, royalties, transportation, other incidental charges, WCTetc.PVA&PVAClauseshallnotbeapplicable. Note:GSTwillbepaidExtraasperApplicablenorms.If any tenderer puts any condition/anything/any taxes extra over and above their quoted rates the tender shallbesummarilyrejected.	
18	Tenders can be downloaded from the bank's website www.sbi.co.in(link) <sbi in="" the<br="">news<procurementnews>orSBIe-TenderPortalwww.tenderwizard.in/SBIETENDER. It shall be responsibility of the contractor to timely submit the technical and financial bid.SBI,innocaseshallberesponsibleforsiteissues/delayintendersubmission.</procurementnews></sbi>		
19		standeachpageofthetenderdocumentthereby ensuring	
20	Noconditionsotherthanmentionedinthe tenderwillbeconsidered, and if given they will have to be withdrawn before submission of final quote, else their bid will be rejected.		
21	Tenders received without EMD and Process Compliance Form shall be summarily rejected and such tenders shall not be allowed to participate in the Price bid process / rejected / not considered / or as decided by Bank.		
22	The Bank will place order as per its requirement and quoting minimum rate for any category doesnotprovideanyguaranteeforreceivingorderforthatitem bythefirmwho quotes lowest rates.		
24	Bankreservesrighttocancelany/alltendersatanystagewithoutassigning any reasons.		
25	•	tthe tender infullor in part and the tenderers hall other condition if his tender is accepted in parts.	



26	Incasethedateoftenderingisdeclaredasaholiday, the tendering will be conducted on the nextworking day at the same time.
27	SBI reserves the right to accept or reject any or all the tenders, either in whole or in part without assigning any reason(s) for doing so, no claim / correspondence shall be entertained in this regard. For any clarification regarding Tendering procedure, please contactSBIAdminoffice,SURAT,whoseaddressismentionedintheNITorArchitect AR.AJAY CHOWDHURY.
28	Itisvendor's/supplier'sresponsibilitytobewellpreparedandgetreadywithE-Tendering procedures & well equipped with all requirements. SBI will not take any responsibility of delayinsubmissionduetoEMD,slowinternetconnectivity,systemfailuresetc.
29	Onlyfinalpaymentwillbemade.
30	It'sa vacant(new)branch .Iftheassignedworkisinrunning/workingBranch,thecontractor shouldexecutethesiteerectionworkinoddhours,HolidaysandSundays.
31	Percentage, if any, to be deducted from bills and total amount to be retained: 10% from Running Bills, subject to maximum Total 5% of contract amount or actual Final Bill value.

YoursFaithfully,

Date: 21.02.2025

The Asst Gen Manager State Bank of India RBO-,VALSAD 396001



Annexure-"B"

LIST OF EMPANELLED ELECTRICAL CONTRACTORS UP TO Rs. 5.0 LAKH

N I	Name, Office Address of the Applicant in Gujarat Stete including U/T	Contact number	E-mail IO	
ų.	Patel Electricals, 1/A, Aastha Complex, Nr. Sanskar Mandal Chowk, Talaja Rd., Bhavnagar	9825088095	patelelectricals55@gmail.com	
ĩ	Shreeji Electricals, U-10, Lake View Flaaaat, Opp. Vastrapur Lake, Vastrapur, Ahmedabad	9427246110	shreejiele10@gmail.com	
3	Paresh Electric Co., 8-1, Harinagar Society, CTM Char Rasta, Ahmedabad-380026	9824129513	paresh_electrical_co@yahoo.co.in	
4	Pay & Service, 309 Sadguru Arcade, Dhebar Road One Way, Rajkot-360001	9825075667, 8160197253	payandservice72@gmail.com	
5	Riya Electricals, 64 Shiv Shankar Nagar, Nr. Malav Talav, Jivrajpark, Ahmedabad 380051	9723958466	riyaelectricals1988@gmail.com	
6	Utkarsh Electricals, 37/6 Kharwar Nagar, Nr. Udhana Naher, Surat 395002	9825257117	utkarshelectricals@yahoo.co.in	
7	Deep Enterprise, 306 Vishranti Enclave, Ambe School Road, Manjalpur,Vadodara- 390011	9512406797	gandhi_devesh@yahoo.in	
8	Gorisha Electricals, A/102, Ayodhya Flats, Ayodhya Township, Tarasali, Vadodara 390009	9904757686	rajesh6765@gmail.com	
9	Jay Shree Tulja Electricals, GF-12, Suryadeep Complex, Nr Rupam Cinema, Harni Road, Vadodara.	9879288410, 9825252364	vipulpurohit2013@gmail.com	
1(Harshad Furniture Mart, Sadar Opp. Moti	9898198877, 9979744997	harshad_furniture@yahoo.com	
1	and the second R 205 Shreenath Re	and the second sec	ULIANIA AND FIELD ALOU ALOU ALOU ALOU ALOU ALOU ALOU ALOU	
1	Access Electrotech, B - 401, Tapi Enclave	9904626310 9726226357	1 accesselectrorechevening	
1	3 Mahadev Electric, 101, Shanti Complex Kotal Street Sanganva Chowk Rajkot-1,	⁶ 9824509312	hirenkanabar54@yahop.com	
1	4 Shah Associates, Opp. Laxmi Bhavan, Nev Station Road, Bhuj Kachchh-370001	9825228305	shahassociate2@gmail.com	



Annexure-"B"

LIST OF EMPANELLED ELECTRICAL CONTRACTOR UP TO RS. 10.0 LAKH

21.4	ALL BUTTON AND ALL AND A		Contract Dr.
SN	Name and address	Contact number	E-mail (D
1	Umesh Engineering Works, Gala No.A-10, D.M. Singh Compound, Opp. Shraddha Tower, Thaaaaaaaaakur Complex, Kandivadi, Mumbai- 400010	9821098131	umeshengineeringwoooorks@gmail.com
2	RK Electricals, 30, Ghati Bhadbhunja, Nr. KMC School, Bhopal	9827216074	mosultan99@gmail.com
3	RP Enterprise, 309m Saraswati Complex, Manjalpur, Vadodara		rpenterprise7@gmail.com
4	Vikalp Electricals, LL-1, Om Centre, Shreyash Crossing, Ambawadi, Ahmedabad-15		vikalp1991@gmail.com
5	Vaidehi Enterprise, 15 Trishila Residency, Nr. Ganesh Park Twin Bunglow, Sola, Ahmedabad 3800061	9327014869, 6352995533	



SN	Name, Office Address of the Applicant in Gujarat State including U/T	Contact number	E-mail ID
1	Shree Electricals, B/5, Vantage Point, 69sampatrao Colony, BPC Rd., Alkapuri, Vadodara	9825032710	shree.electricals94@gmail.com
2	Dharmesh A Mewada, 123, Sangath Mall-1, Opp. Govt. Engg. College, Visat Gandhinagar Highway, Motera, Ahmedabad-382481	9725043778	dharmeshmewada17@gmail.com
3	Kirti Traders, Jivan Mansion, Lati Bazar, Bhavnagar	9426548801	ananddoshi62@gmail.com
4	Dhriti Engineers, 28 Mahadevnagar Society, O/s Panigate, B/h Govind Rao Park, Ayurvedik, Vadodara-19	9998981088	dhritiengineers@gmail.com
5	Maya Tranformer & Electricals, C/9, Gopinath Society, Opp. SK Complex, India Colony mRd., Bapunagar, Ahmedabad-380024	9825716962	mayatrel@yahoo.com
6	NK Electricals, SB/83, Indraprasth Complex, Ellora Park, Vadodara-390007	9825061543	ketanna@gmail.com
7	Urmi Electric Co., B/5 Jaimini Society, Nava Vadaj, Ahmedabad-13	9825342374	urmiele22@gmail.com
8	Jay Engineers, F/5 Mansi Apartment, B/h Galaxy Cinema, Naroda, Ahmedabad-382330	98244031888	kumudrathod@yahoo.co.in
9	Pooran Chand Sharma & Sons, 1/70, W.H.S. Timber Market, Kirti Nagar, New Delhi - 110015	9810111055, 01141420277	sds.pcss@gmail.com
10	Perameter Engineering Projects, 7&8, Third Floor, Jyoti Plaza, Shyasmal Cross Road, Ahmedabad 380015	07940060596, 07940060597	naidu@parameter.in
11	R S Enterprises, C-74, Patel Nagar, Balsen Road, Bhopal MP. 462022	9826961063, 9425378197	rsenterprises73@gmail.com
12	Mamta Electrical, 68 Shram Jivi Soc no 1 Umara, Ichanatha, Surat	9898599899	hem_sukhadia@yahoo.com
13	Sai Electrical Works, 19/2/28, Store Lane, S A Brelvi road, bahadur manzil, fort, Mumbai	9820326854	saielectricworks@gmail.com

Annexure-"8"



Annexure-"B"

LIST OF EMPANELLED ELECTRICAL CONTRACTORS UP TO RS 50.0 LAKH

SN	Name, Office Address of the Applicent in Gujarat State including	Contact number	E-mail ID
1	Rudra Enterprise, B-9, Akahardeep Complex, Sanskar Mandal Chowk, Talaja Rd., Bhavnagar	9428996994	rudraenterprisework@gmail.com
2	RB Trading Co., 9 GF, HH Trust Building, Nr. Kothari Pole, Gandhi Rd., Ahmedabad–1	9033077332	rbtrading99@yahoo.co.in
3	Bhagat Electricals, 101, Shailja Saaaankul, Nr. Amrepali Railway Crossing, Raiya Rd., Rajkot	9825165426	bhagatelectricals@yahoo.co.in
4	Kruti Electrical, 626, Mandir Street, Mota Varacha, Surat	9723454883	archkrut@gmail.com
5	System Protection, 301/2, silverline Complex, Opp BBC Tower, Sayajigan], Vadodara - 390005	2652225137	info@systemprotection.in



Annexure-"B"

LIST OF EMPANELLED ELECTRICAL CONTRACTORS UP TO Rs. 100.0 LAKH

\$N	Name and Office Address	Name and Office Address Contact number	
1	Alpha Enterprise, A/2, Shri Hari Co;ony, Lad Society Rd., Nehru Park, Vastrapur, Ahmedabad-15	9408281388	info@alphaenterprise.co.in
2	Janta Electric Co., Shop No. 6, Bldg. 3, Chaitanya CHS, Opp. Ram Mandir Rd., SV Rd., Goregaon (W), Mumbai-400104	7208000817	jantaelectriccompany@yahoo.in
3	Power Control, 18, Sursarthi Complex, B/H Rudra Complex, Ambawadi, Ahmedabad-6	9327030790	info@powercontrol.com
4	Indian Electric Carporation, 1-A Hemali Bunglows Nr. Old ptwa nursing home, Opp. Kachhi Samaj,Paldi Ahmedabad.7	9327578375, 9825306291	info@iecprojects.co.in
5	Parth Energy Solutions, Shop No 1, Sai Darshan Apt, Santosh Park Main Road, 150ft Ring Road, Rajkot 360007	9998517133	parth_energy@rediffmail.com
6	Aum Electric Engineering Pvt. LTD. Plot No 7 Kadiwala Street Opp. Shivram Dyeing, Behind Kiran Mortors, Surat 395002	9825093003, 9879593825	aumelectric1994@yahoo.co.in
7	Bhavani Construction, 212, 2nd Floor, Ratandeep Complex, Opp. Central Selt, Waghawadi Road, Bhavnagar	9427262860/ 9428078876	<u>bhavani_const@vahoo.in</u>

Ar.AJAY CHOWDHURY



FORMTENDER

To, The Asst Gen Manager State Bank of India RBO-4,VALSAD396001

DearSir,

Having examined the drawings, specification, design and schedule of quantities relating to the works specified in the memorandum hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said memorandum at the rates mentioned in the attachedScheduleofQuantitiesandinaccordanceinallrespectswiththespecifications, design,drawingsandinstructionsinwritingreferredtoinconditionsoftender,theArticles ofAgreement,SpecialConditions,ScheduleofQuantitiesandConditionsofContractand with such materials as are provided for by, and in all other respects in accordance with such conditions so far as they may be applicable.

MEMORANDUM

	INIORANDUM
Descriptionofwork	Proposed Electrical works of
	SBIRAKHOLIBRANCH, DISTDADRA AND NAGAR
	HAVELI,RBO-4VALSAD.
Earnest Money	Rs.3,700/-bymeansofDemandDraft/PayOrder
	from any scheduled Nationalized Bank drawn in favor of of State Bank of India and payable at VALSAD.(Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD, theyshouldsubmitregistrationcertificateof 'MSMEUDYAM')
Percentage,ifany,tobe	10 % from Running Bills, subject to maximum
deductedfromBillsandtotalamount to	Total5%ofcontractamountoractualFinalBill value.
be retained	
Time allowed for completion of the Works from fourteenth day after the dateofwrittenorderordateofhanding overofthesite(whicheverislater)to commencethework	

I/Wehavedepositedasumof**Rs.3,700/-**ofthetotaltenderamountasEarnestMoneywith theSBIwhich isnottobearanyinterest.ShouldI/We failtoexecutetheContractwhen called upon to do sol/ We do hereby agree that this sum shall be forfeited by me/us to State Bank of India.



1) OurBankersare:

i)

ii)

Thenamesofpartnersofourfirmare:i) ii)

Nameofthepartnerofthefirm Authorizedtosign Or

(NameofpersonhavingPowerofAttorneytosigntheContract.)

(CertifiedtruecopyofthePowerofAttorneyshouldbeattached)

Yours faithfully,

SignatureofContractors.

SignatureandaddressesofWitnesses i)

ii)



SAMPLEBUISNESSRULEDOCUMENT ONLINEE-TENDERINGFORELECTRICALWORKOF

SBIRAKHOLIBRANCH, DIST. - DADRA AND NAGAR HAVELI, RBO-4VALSAD.

(A) BusinessrulesforE-tendering:

- 1. Only Bank'sempaneledELECTRICALWORKcontractorswithSBIunder appropriate categorywho are invited by the project Architect/SBI shall only be eligible to participate.
- 2. SBIwillengagetheservicesofanE-tenderingserviceproviderwhowillprovidenecessarytraining and assistance before commencement of online bidding on Internet.
- 3. In case of e-tendering, SBI will inform the vendor in writing, the details of service provider to enablethem to contact and get trained.
- 4. Business rules like event date, closing and opening time etc. also will be communicated through serviceprovider for compliance.
- 5. Contractors have to send by email, the compliance form in the prescribed format (provided by service provider), before start of E-tendering. Without this the vendor will not be eligible to participate in the event.
- TheContractorswillberequiredtosubmitthevariousdocumentsinsealedEnvelopetotheoffice ofAsst.GeneralManager,RBO-4,VALSADattheaddressmentionedhereinbeforebythestipulated datei.e.(1)DemandDraftofspecifiedamountofEMD,(2)Processcomplianceformdullysigned. Contractors not submittingany one ormore documents shall not be eligible to participate in the on-line price bidding.
- 7. E-tenderingwillbeconductedonscheduledate&time.
- 8. Thee-tenderingwillbetreatedasclosedonlywhenthebiddingprocessgetsclosedinall respects for the item listed in the tender.

(B) Terms&conditionsofE-tendering:

SBI shall finalize the Tender throughe-tendering mode for which M/s. Antares Systems Limited has been engaged by SBI anauthorized service provider. Please go through the guidelines given below and submit your acceptance to the same along with your Commercial Bid.

1. E-tendering shall be conducted by SBI through M/s. Antares Systems Limited, on prespecifieddate.WhiletheContractorsshallbequotingfromtheirownoffices/placeoftheirchoice,Intern et connectivity and other paraphernalia requirements shall have to be ensured byContractors themselves. In the event of failure of their Internet connectivity, (due to any reason whatsoever it may be) it is the bidders' responsibility Inordertoward-offsuchcontingentsituationbiddersare requestedtomakeall

thenecessaryarrangements / alternatives such as back-up power supply whatever required so that they areable to circumvent such situation and still be able to participate in the E-tendering successfully.Failure of power at the premises of Contractors during the E-tendering cannot be the cause fornot participating in the E-tendering.

<u>OnaccountofthisthetimefortheE-tenderingcannotbeextendedandSBIisnotresponsibleforsuch</u> <u>eventualities.</u>

2. M/s. Antares Systems Limited, shall arrange to train your nominated person(s),without any cost to you. They shall also explain you all the Rules related to the E-tendering. You are required to give your compliance on it before start of bid process.



- 3. BIDDING CURRENCY ANDUNIT OF MEASUREMENT:Bidding will be conducted in Indiancurrency & Unit of Measurement will be displayed in Online E-tendering.
- 4. BIDPRICE:TheBidderhastoquotetherateaspertheTenderDocumentprovidedbySBIthrough their appointed Architects.
- 5. VALIDITY OF BIDS: The Bid price shall be firm for a period specified in the tender document and shall not be subjected to any change whatsoever.
- 6. Procedureoff-tendering:

i. OnlineE-tendering:

- (a) ThehardcopyoftheTechnicalaswellasPriceBidisavailableontheBank'swebsiteduringthe periodspecifiedintheNIT.
- (b) Online e-tendering is open to the empaneled bidders who receive NIT from the Architect and qualified for participating in the price bidding as provisions mentioned hereinabove through SBI approved ServiceProvider.
- (c) The Price-Bidshall be made availableonline by the ServiceProviderwherein thecontractors will be required to fill-in their item- wise rates for each item.
- (d) TheContractorsareadvisednottowaittillthelastminutetosubmittheironlineitem-wisequote intheprice bid to avoid complications related with internet connectivity, network problems, system crashdown, power failure, etc.
- (e) It is mandatory to all the bidders participating in the price bid to quote their rates for each and everyitem.
- (f) In case, contractor fails to quote their rates for any one or more tender items, their tender shall betreated as "Incomplete Tender" and shall be liable for rejection.
- 7. LOG IN NAME & PASSWORD: Each Bidder is assigned a Unique User Name & Password by M/s. Antares Systems Limited. The Bidders are requested to change the Password after the receipt of initial Password from M/s. Antares Systems Limited. All bids made from the LoginID given to the bidder will be deemed to have been made by the bidder.
- 8. BIDS PLACED BY BIDDER: Bids will be taken as an offer to execute the work as specified. Bids oncemade,cannotbecancelled/withdrawnandtheBiddershallbeboundtoexecutethework atthequotedbidprice.IncasetheL1Bidderbacksoutorfailstocompletetheworkasperthe rates quoted, SBI shall have the liberty to take action as deemed necessary including de- paneling such contractors and forfeiting their EMD/ EMD amount through any means and imposing heavy penalty to contractor to recover the losses occurred to the Bank.
- 9. At the end of the E-tendering process, SBI will decideupon the winner. SBI decision on award of Contract shall be final and binding on all the Bidders.
- 10. SBIshallbeatlibertytocanceltheE-tenderingprocess/tenderatanytime,beforeordering,without assigning any reason.
- 11. SBIshallnothaveanyliabilitytobiddersforanyinterruptionordelayinaccesstothesite irrespective of the cause.
- 12. Othertermsandconditionsshallbeasperyourtechno-commercialoffersandother correspondences till date.
- 13. OTHERTERMS&CONDITIONS:
- Ar.Ajay Chowdhury



- TheBiddershallnotinvolvehimselforanyofhisrepresentativesinPricemanipulationofanykind directly or indirectly by communicating with other suppliers/ bidders.
- TheBiddershallnotdivulgeeitherhisBidsoranyotherexclusivedetailsofSBItoanyotherparty.
- SBIdecisiononawardofContractshallbefinalandbindingonalltheBidders.
- SBIreservetheirrightstoextend,rescheduleorcancelanyE-tenderingwithinitssolediscretion.
- SBI or its authorized service provider M/s. Antares Systems Limited shall not have any liabilitytoBiddersforanyinterruptionordelayinaccesstothesiteirrespectiveofthecause.
- SBI or its authorized service provider M/s. Antares Systems Limited is not responsible for any damages, including damages that result from, but are not limited to negligence.
- SBI or its authorized service M/s. Antares Systems Limited will not be held responsible for consequentialdamages, includingbutnotlimitedtosystemsproblems, inability touse the system, loss of electronic information, etc.

N.B.

- All the Bidders are required to submit the Process Compliance Statement (Annexure-II) duly signed to M/s. Antares Systems Limited.
- All the bidders are requested to ensure that they have a valid digital signature certificate well in advance to participate in the online event.



PROCESSCOMPLIANCESTATEMENT(ANNEXURE II)

(The bidders are required to print this on their company's letter head and sign, stamp before e-mailing)

Τo,

M/s.AntaresSystemsLimited, Mr.KushalBose MobileNo.:+919674758719 e-Mail:<u>kushal.b@antaressystems.com</u>

AGREEMENTTOTHEPROCESSRELATEDTERMSANDCONDITIONSFORTHEONLINEE-TENDERINGFOR ELECTRICAL WORK OF SBIRAKHOLIBRANCH, DIST.- DADRA AND NAGAR HAVELI, RBO-4, VALSAD.

DearSir,

ThishasreferencetotheTerms&ConditionsfortheE-tenderingmentionedintheTenderdocument This letter is to confirm that:

- 1) The undersigned is authorized representative of the company.
- 2) WehavestudiedtheCommercialTermsandtheBusinessrulesgoverningtheE-tenderingas mentioned in RFP of SBI as well as this document and confirm our agreement to them.
- 3) WealsoconfirmthatwehavetakenthetrainingontheE-tenderingtoolandhaveunderstood the functionality of the same thoroughly.
- 4) We confirm that SBI and M/s. Antares Systems Limited shall not be liable &responsiblein any mannerwhatsoeverformy/ourfailuretoaccess&bidonthee-E-tenderingplatformduetoloss of internet connectivity, electricity failure, virus attack, problems with the PC, any other unforeseen circumstances etc. before or during the E- tendering event.
- 5) WeconfirmthatwehaveavaliddigitalsignaturecertificateissuedbyavalidCertifying Authority.
- 6) We,herebyconfirmthatwewillhonortheBidsplacedbyusduringtheE-tenderingprocess.

Withregards, Date:

Signature with company seal Name:

Company/ Organization:

DesignationwithinCompany/Organization:AddressofCompany/Organization: Scan

it and send to this Document on -----



(OnNon-JudicialStamppaperofappropriatevalue)

ARTICLESOFAGREEMENT

Articles	of	Agreement	made	this	day
of					
between S	tateBank	OfIndia,abody,co	rporatecons	titutedundertheStateBankOfIndiaActandhaving	
itsCorpora	teofficea	atMadamecamaRo	oad,Mumba	i. hereinaftercalledtheBankwhichexpressionsshall	
includeits	successor	sandassignsoftheo	onepartand_	(name&addressof contractor)	
	herei	inaftercalledthe"C	ontractor"w	hichexpressionshallincludethe successors and assi	gnsof
the other	part.				

WHEREAStheBank is desirous of executing the work of Interior Decoration & Furnishing work: ELECTRICAL WORK of SBIRAKHOLIBRANCH, DIST.- DADRA AND NAGAR HAVELI, RBO-4VALSAD for **StateBank** of India and has caused drawings, specifications, and schedule of quantities etc. describing the works to be prepared by the Architect.

ANDWHEREASforthesaidconstructionoflocalRegionalOfficeBuildingforStateBankofIndiaatSURAT, Terms&Conditions,SpecificationsandtheScheduleofitems,quantitiesetc.,havebeensignedbyandon behalf of the parties hereto.

ANDWHEREAStheContractorhasagreedtoexecuteupon, subject to the conditions set for thhere in and Schedule of Items and quantities, General & SpecialConditions of Contract, specification setc contained in the tendered documents including all correspondences exchanged by or between the parties from the submission of tender till the award of work, both letters inclusive, (all of which are collectively here in after referred to as "the said conditions", details of which are described in the schedule attached here to, the works shown upon the said drawings and/or described in the said specification and included in the schedule of items and quantities at the respective rates there in set for thamounting to the sum as shall become payable there under arrived at or such other sum as shall become payable there under arrived at or such other sum as shall become payable there under arrived at on such other sum as shall become payable there under an under (here in after referred to as "the said contract amount")

NOWITISHEREBYAGREEDASFOLLOWS:

- 1. Inconsideration of the said contract amount to be paid at the time and in the manner set for thin the said conditions, the contractor shall upon and subject to the said conditions execute and complete the workshown in the said drawings and described in the said specifications and the schedule of items and quantities, as per the terms and conditions contained in the said conditions.
- 2. The Bankshallpay the Contractorsaidcontractamount, orsuchother sum asshallbecome payable, at the time and in the manner specified in the said conditions.
- 3. The Architects in the said condition shall mean the <u>Ar.AJAY CHOWDHURY ARCHITECT AND</u> <u>INTERIORDESIGNER, 202, river palace, nanpura, SURAT 395001</u> In the event of their ceasing to be the Architects for the purpose of this contract for whatever reason, such other person or persons as shall be nominated for that purpose by the Bank, provided always that no person subsequently appointed as Architects under this contract shall be entitled to disregard or over rule



any previous decisions or approvals or directions given or expressed in writing by the Architects for the time being.

- 4. The said general condition, Special condition, technical drawings, Notice Inviting Tender, specifications, Guarantee, Instruction to Tenderers PriceBid (Schedule of Quantities), Correspondences, Letter of Acceptance, Agreements and Appendices there to, contained in the tendereddocuments/saidconditionsshallbereadandconsideredasformingpartofthisAgreement, and the parties hereto shall respectively abide by, submit themselves to the said conditions and perform the agreements on their part respectively in the said conditions contained therein.
- 5. The plans, agreements and documents mentioned herein shall form the basis of this contract. This contractisneitherafixedLumpSumcontractbutisacontracttocarryouttheworkinrespectofthe "Interior Decoration & Furnishing work: ELECTRICAL WORK of SBIRAKHOLIBRANCH, DIST.- DADRA AND NAGAR HAVELI, RBO-4VALSAD for State Bank of India as per the scope described and to be paid for according to actual measured quantities at the rates contained in the Schedule of Rates and /or negotiated rates and Probable quantities or as provided in the said conditions.
- 6. The Bank reserves to itself the rights of altering the specifications and nature of the work by adding to oromitting any itemsofworkor having portionsofthe same carriedoutwithout prejudiceto this contract.
- 7. (a)The Contractors represent that they have experience and competent staff which willenable them to ensure proper quality check on the materials, whether brought by the contractors or suppliedbytheBanktothecontractors,andwhichwillensurethatthecontractorwillcarryout proper tests as required by the specifications and will supervise the day to day working and execution of the contract work.
 - (b) If the contractors have any doubt about the quality of the materials or any difficulty in supervision of the day to day work it shall be duty of the contractors to report the matter in writing forthwith to the Bank and for the time being suspend that portion of the work about which difficulty is experienced, and the contractors will abide by the directions given by the Bank.
 - (c) ThecontractorsareawarethattheBankwillnotgivedaytodaysupervisionbutwillperiodically supervise and the contractor has to perform their obligations under the instructions given to him periodically and under sub clauses (a) and (b) above.
 - (d) The contractors coven ant and warrant that complete ditems of work as well as the entire work on completion will be in conformity with the specifications and the terms and conditions contained in the said conditions and will be of contract quality and description.
 - (e) The employer reserves to itself the right of altering the drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract.
- 8. Time shall be considered as the essence of this contract and the contractor hereby agrees to commence the work on the day on which he is instructed to take possession of the site or from the fourteenth day after the day of issue of formal Work Order as provided for in the said conditions whichever is later and to complete the entire work within 30 days subject nevertheless to the provisions for the extension of time.



- 9. AnydisputearisingunderthisAgreementshallbereferredtoarbitrationinaccordancewiththe stipulation laid down in the general conditions of contract.
- 10. The contents of this contract agreement have been read by the contractor and fully understood by the contractor.

IN WITNESS WHERE OF the Bank and the Contractor have set their respective hands to these Presents andtwoduplicateshereofthedayandyearfirsthereinabovewritten(IftheContractorisaPartnership Firm or an Individual.

IN WITNESS WHERE OF the Bank has set its hands to these presents through its duly authorized official andthecontractorhascauseditscommonsealtobeaffixedhere untoandthesaidduplicateshave/has causedthesepresentsandthesaidtwoduplicateshereoftobeexecutedonitsbehalf,thedayandyear first here in above written (If contractor is a Company).

Signatureclause:	
SIGNEDANDDELIVERED	
BythehandofShri (NameandDesignation)	Assistant General Manager of State Bank Of India
Inpresenceof	
1Address	Address
	Address
(Witness)	
SIGNED AND DELIVERED by individual, should be signed by all partners or b	(If theContractor isaPartnership Firmoran y duly authorized person on behalf of all partners)
(1)	
Address	-
(2)	
Address	
(Witness)	



THE COMMON SEAL OF

was hereinto affixed pursuant to the

resolution By Board of Directors at the Meeting held on (If the Contractor signs under its common seal, the Signature Clauses hould tally with the sealing clause in the Articles of Association)

SIGNEDANDDELIVEREDby

(1)		
(2)		
. ,		
1)		
, Address		
(2)		

(2) ______ Address

(Witness)

 _(If the Contractor has signed by

(1) ______Address ______ (2) ______Address

(Witness)



1INSTRUCTIONS TO THE TENDERERS

1.0 Scopeofwork

SealedTendersareinvitedbySBlonbehalfofSBlforProposedElectricalworksfor**SBIRAKHOL IBRANCH,DIST.-DADRA AND NAGAR HAVELI,RBO-4VALSAD**.

1.1 Siteandits location

TheproposedworkistobecarriedoutatSBIRAKHOLIBRANCH,DIST.-DADRA AND NAGAR HAVELI, RBO-4VALSAD

Tenderdocuments

- 2.0 Theworkhastobecarriedoutstrictlyaccordingtotheconditionsstipulatedinthetender consisting of the following documents and the most workmen like manner. Instructions to tenderers GeneralconditionsofContract Special conditions of Contract Additional Specifications Drawings Pricedbid
- 2.1 Theabovedocumentsshallbetakenascomplementaryandmutuallyexplanatoryofone another but in case of ambiguities or discrepancies, shall take precedence in the order given below;
 - a) PriceBid
 - b) Additional Specifications
 - c) Technical specifications
 - d) Drawings
 - e) Specialconditionsof contract
 - f) General conditions of contract
 - g) InstructionstoTenderers
- **2.2** Complete set of tender documents including relative drawings can be downloaded from the website www.sbi.co.in
- **2.3** Thetenderdocumentsarenottransferable.
- 3.0 Site Visit:
- 3.1 Thetenderermustobtainhimselfonhisownresponsibilityandhisownexpensesall

Ar.Ajay Chowdhury

Sign&Sealof contractor



informationand datathatmaybe requiredforthe purpose offillingthis tenderdocument and enter into a contract for the satisfactory performance of the work. The tenderer is requested satisfy himself regarding the availability of water, power, transport and communication facilities, the character quality and quantity of the materials, labour, the law-and-order situation, climatic conditions local authorities requirement, traffic regulations etc; The tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.

4.0 Earnest Money:

- 4.1 The tenderers are requested to submit the Earnest Money of Rs.3,700/-by means of DemandDraft/PayOrder(Validforaperiodof 90Daysfromthelastdateof submission ofthetender)fromanyscheduledNationalizedBankdrawninfavorofSBlandpayable at VALSAD.(Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD, they should submit registration certificate of 'MSME UDYAM')
- 4.2 EMD in any other form other than as specified above will not be accepted. Tender not accompanied by the EMD in accordance with clause 4.1 above shall be rejected.
- 4.3 Nointerestwillbe paidontheEMD.
- 4.4 EMDof unsuccessfultendererwillberefundedwithin20Daysofawardof Contract.
- 4.5 EMDof successfultendererwillberetainedasapartofsecuritydeposit.
- 5.0 InitialSecurityDeposit:

The successful tenderer will have to submit a sum equivalent to 2% of accepted tender valuelessEMDbymeansofDDdrawninfavorofSBIPayableatVALSADwithinaperiod of 7 days of acceptance of tender.

5.1 <u>SecurityDeposit:</u>

Totalsecuritydepositshallbe5% of contract value. Out of this **NIL** of contract value is in the form of Initial Security Deposit (ISD) which includes the EMD. Balance 3% shall be deducted from the running account bill of the work at the rate of 10% of the respective running account bill.e., deduction from each running bill account will be @10% till Total Security Deposit (TSD) reaches to 5% of contract value. The 50% of the Total Security Deposit shall be paid to the contract on the basis of architect's certifying the virtual completion. The balance 50% would be paid to the contractors after the defects liability period as specified in the contract.

5.2 Additional Security Deposit:

1.0 ADDITIONALSECURITYDEPOSITE(ASD)/ADDITIONALPERFORMANCEGUARANTEE(APG)(IF <u>THE QUOTED AMOUNT IS BELOW 7.5% THAN THE ESTIMATED AMOUNT</u>) Thetendererhavetopayadditionalsecuritydeposit(ASD)/additionalperformance



guarantee (APG) shall be applicable if the quoted bid price amount is more than 7.5% below than the estimated cost put to the tender. the Additional Security Deposit (ASD) / APGshallbethedifferenceamountbetween92.5% of estimated costamountand quoted amount by the lowest bidder after the reverse auction. The bidder must submit it with the letter of undertaking(Performance guarantee) and deposit within 7 days of reverse auction. Theworkorderisissuedafterthesubmission of additional security deposit amount retained by the bidder. No interest shall be paid on this additional security deposit amount retained by the back. And it will be release after defect labiality period of the project. If the successful bidderfailto deposit the amountwithinstipulated giventime, the agencywill be blacklisted from the empanelment for 3 years without any notice & EMD will be seized by bank.

No interest shall be paid to the amount retained by the Bank as Security Deposit forthedefectliabilityperiodofoneyearfromthedatevirtualcompletioncertificate (VCC). However,interestonFDRforadditionalsecuritydepositwillbereceivedbythebidder.

5.3 SigningofcontractDocuments:

The successful tenderer shall be bound to implement the contract by signing an agreement and conditions of contract attached herewith within 30 days from the receipt of intimation of acceptance of the tender by the Bank. However, the written acceptance of the tenders by the Bank will constitute a binding agreement between the Bank and successfultendererwhethersuchformalagreementissubsequentlyenteredintoornot.

6.0 Completion Period:

Timeisessenceofthecontract. Theworkshouldbecompleted inall respect accordance with the terms of contract within a period of **30 days** from the date of award of work.

7.0 Validityoftender:

Tendersshallremainvalidandopenforacceptanceforaperiodof90daysfromthedate of ereverse auction. If the tenderer withdraws his/her offer during the value period or makes modifications in his/her original offer which are not acceptable to Bank without prejudice to any other right or remedy the Bank shall be at liberty forfeit the EMD.

8.0 LiquidatedDamages:

Theliquidateddamagesshallbe0.50% perweeksubject to a maximum of 5% of contract value.

9.0 Rateandprices:

9.0.1Incaseofitemrate tender:

Thetenderersshallquotetheirratesforindividualitemsbothinwordsandfigure.Incase of discrepancy between the rate quoted in words and figures, the unit rate quantity in wordswillprevail.Ifnorateisquotedforaparticularitemthecontractorshallnotbepaid for that item when it is executed. The amount of each item shall be calculated and the requisitetotalisgiven.Incaseofdiscrepancybetweentheunitrateandthetotalamount calculatedfrommultiplicationofunitrateandthequantitytheunitratequotedwillgovern and the amount will be corrected.

Thetenderersneednotquotetheirratesforwhichnoquantitieshavebeengiven.Incase



the tenderers quote their rates for such items those rates will be ignored and will not be considered during execution.

The tenderers should not change the units as specified in the tender. If any unit is changedthetenderswouldbeevaluatedaspertheoriginalunitandthecontractorwould be paid accordingly.

The tenderer should not change or modify or delete the description of the item. If any discrepancy is observed he should immediately bring to the knowledge of the Architect/SBI

EachpageoftheBOQshallbesignedbytheauthorizedpersonandcuttingoroverwriting shall be duly attested by him.

Eachpageshallbetotaledandthegrandtotalshallbe given.

The rate quoted shall be firm and shall include all costs, allowances, materials, labours, taxes etc. except G.S.T, which shall be payable / reimbursed at actual

TheSBIreservetheirrightstoacceptanytenders, eitherinwholeorinpartormayentrust the work in phases ormay drop the part scope of work at any stage of the project within its sole discretion without assigning any reason(s) for doing so and no claim / correspondence shall be entertained in this regard.

SIGNATUREOFTHECONTRACTORWITHSEAL



GENERALCONDITIONSOFCONTRACT

1.0 Definitions:-

"Contract means the documents forming the tender and the acceptance thereof and the formal agreement executed between SBI. (client) and the contractor, together with the documents referred there in including these conditions, the specifications, designs, drawingsand instructionsissuedfromtime to timebythe Architects/Bankandallthese documents taken together shall be deemed to form one contract and shall be complementary to one another.

In the contract the following expressions shall, unless the context otherwise requires, have the meaning hereby respectively assigned to them.

'SBI'shallmeanSBIhavingits**Dy.GeneralManager(B&O),Admin.Office,SURAT** and includes the client's representatives, successors and assigns.

1.0.1 'Architects/ Consultants' shall mean Ar. AJAY CHOWDHURY, Architects & Interior Designers, SURAT.

1.0.2 'Site Engineer' shall mean an Engineer appointed by the SBI at site as their representative for day-to-day supervision of work and to give instructions to the contractors.

1.0.3 'TheContractor'shallmeantheindividualorfirmorcompanywhetherincorporate not, undertaking the works and shall include legal personal representative of individual or the composing the firm or company and the permitted assignees of individual or firms of company.

Theexpression'works'or'work'shallmeanthepermanentortemporaryworkdescription in the "Scope of work" and/or to be executed in accordance with the contract includes materials, apparatus, equipment, temporary supports, fittings and things of kinds to be provided, the obligations of the contractor hereunder and work to be done by the contractor under the contract.

1.0.4 'Engineer'shallmeantherepresentativeoftheArchitect/consultant.

1.0.5 'Drawings' shall mean the drawings prepared by the Architects and issued by the Engineerandreferredtointhespecificationsandanymodificationsofsuchdrawingsas may be issued by theEngineerfrom time to time Contract value shall mean value of the entireworkasstipulatedintheletterofacceptanceoftendersubjectsuchadditionsthere to or deductions there from as may be made under the provide herein after contained.

1.0.6 Specifications' shall mean the specifications referred to in the tender and modifications thereof as may time to time be furnished or approved by the Architect/Consultant.



- 1.0.7 "Month" meanscalendar month.
- 1.0.8 "Week"meanssevenconsecutivedays.

1.0.9 "Day"meansacalendardaybeginningandendingat00Hrsand24Hrs respectively.

1.1.11 "SBI Engineer" shall mean The Civil/Electrical Engineer in-charge of the Project, asnominatedbythe**Dy.GeneralManager(B&O),Admin.Office,SURAT.**

1.1.12 The following shall constitute the Joint Project Committee (herein under referred to as JPC) for assessing and reviewing the progress of the work on the project and to issue instructions or directions from time to time for being observed and followed by the Architects Site Engineer / PMC and other consultants / contractors engaged in the execution of the project.

- i) AGM,RACPC,SURATofSBI
- ii) SBIEngineer(CivilandElectrical)in-chargeof theProject
- iii) ConcernedpartneroftheArchitectsandtheirResidentArchitect Member.

<u>CLAUSE</u>

1.0 TotalSecurityDeposit

TotalSecuritydepositcompriseofEarnestMoneyDeposit,Initialsecuritydepositand Retention Money

1.1 EarnestMoneyDeposit-

ThetenderershallfurnishEMDof**Rs.3,700/-**intheformofDemanddraftorbankerscheque drawn in favour of SBI Payable at VALSAD, on any Scheduled Bank. No tender shall be consideredunlesstheEMDissodepositedintherequiredform.Nointerestshallbepaid on this EMD. The EMD of the unsuccessful tenderer shall be refunded soon after the decision to award the contract is taken without interest. The EMD shall stand absolutely forfeited if the tenderer revokes his tender at any time the period when he is required to keep his tender open acceptance by the SBI or after it is accepted by the SBI , the contractor fails to enter into a formal agreement or fails to pay the initial security deposit as stipulated or fails to commence the commence the work within the stipulated time.(Contractorsregisteredwith'MSMEUDYAM'neednotsubmitEMD.InsteadofEMD, they should submit registration certificate of 'MSME UDYAM')

1.2 InitialSecurityDeposit (ISD)

The amount of ISD shall be **NIL** of accepted value of tender in the form of DD/Fixed Deposit Receipt (FDR) drawn on any scheduled Bank and shall be deposited within 30 days from the date of acceptance of tender.

1.3 Retention Money:

Besides the SD as deposited by the contractor in the above said manner, the Retention money shall be deducted from the running account bill at the rate of 10% of the gross value of work done by the contractor and claimed in each bill provided the total security depositi.e.ISDplusEMDplusRetentionMoneyshallbothtogethernotexceed5%ofthe



contract value. The 50% of the total security deposit shall be refunded to the contractor withoutanyinterestonissueofVirtualCompletioncertificatebytheArchitect/consultant. Thebalance50%ofthetotalsecuritydepositshallberefundedtothecontractorswithout interest withinfifteendays aftertheend of defects liabilityperiod provided the contractor has satisfactorily attended to all defects in accordance with the conditions of contract including site clearance.

2.0 Language:

ThelanguageinwhichthecontractdocumentsshallbedrawnshallbeinEnglish.

3.0 Errors.omissionsanddiscrepancies:

Incase of errors, omissions and/ordisagreement between written and scaled dimensions on the drawings or between the drawings and specification setc., the following or dershall apply.

- i) Betweenscaledandwrittendimension(ordescription)onadrawing,thelattershallbe adopted.
- ii) Betweenthewrittenorshowndescriptionordimensionsinthedrawingsandthe corresponding one in the specification the former shall be taken as correct.
- iii) Betweenwrittendescriptionoftheiteminthespecificationsanddescriptionsinbillsof quantities of the same item, the former shall be adopted:
- a) Incaseofdifferencebetweenrateswritteninfiguresandwords, therateinwordsshall prevail.
- b) Between the duplicate / subsequent copies of the tender, the original tender shall be taken as correct.

4.0 ScopeofWork:

The contractors hall carry out complete and maintain the said work in every respect strictly accordance with this contract and with the directions of and to the satisfaction Banktobe communicated through the architect/consultant. The architect/consultant at the directions of the SBI from time to time issue further drawings and / or write instructions, details directions and explanations which are here after collectively references to as Architect's / consultant's instructions in regard to the variation or modification of the design, quality or quantity of anywork or the addition or substitution work. Any discrepancy in the drawings or between BOQ and / or drawings and/or specifications. The removal from the site of any material brought thereon by the Contractor and any substitution of any other materials therefore the removal and/or re- execution of any work executed by him. The dismissal from the work of any person engaged the re upon.

5.0 i) LetterofAcceptance:

Within the validity period of the tender the SBI shall issue a letter of acceptance directly orthrough the architectby registered postorotherwised epositing at the of the contractor as given in the tender to enter into a Contract for the execution of the work as per the terms of the contract contract contract between the SBI and the contractor.



ii)ContractAgreement:

OnreceiptofinitimationoftheacceptanceoftenderfromtheSBI/Architectthesuccessful tenderer shall be bound to implement the contract and within fifteen days there of shall sign an agreement in a non-judicial stamp paper of appropriate value.

6.0 Ownershipofdrawings:

Alldrawings, specifications and copies thereoffurnished by the SBI through its Architect /consultants are the properties of the SBI They are not to be used on other work.

7.0 Detaileddrawingsandinstructions:

TheSBIthroughitsarchitects/consultantsshallfurnishwithreasonableproperadditional instructions by means of drawings or otherwise necessaryfor the execution of the work. All such drawings and instructions shall be consistent with contract documents, true developments thereof and reasonably inferable there.

Theworkshallbeexecutedinconformitytherewithandthecontractorprepareadetailed programme schedule indicating therein the date of start and completion of various activities on receipt of the work order and submit the same to the SBI through the architect/consultant

7(a)Copies of agreement:

Two copies of agreement duly signed by both the parties with the drawings shall be handed over to the contractors.

8.0 Liquidateddamages:

If the contractor fails to maintain the required progress in terms of clause 6.0 of GOC or to complete the work and clear the site including vacating their office on or before the contractedorextendeddateorcompletion, without justification insupport of the cause of delay, he may be called upon without prejudice to any other right of remedy available under the law to the SBI on account of such breach to pay a liquidated damages at the rate of 0.50% of the contract value which subject to a maximum of 5% of the contract value.

9.0 Materials, Appliancesand Employees:

Unlessorotherwisespecifiedthecontractorshallprovideandpayforallmaterials, labour, water, power, tools, equipment transportation and any other facilities that are required for the satisfactory execution and completion of the work. Unless or otherwise specified all materials shall be new and both work manship and materials shall be best quality. The contractorshall at all times enforces trict discipline and good or deramong his employees and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him. Work man whose work or behavior is found to be unsatisfactory by the SBI /Architect/ consultant he shall be removed from the site immediately.

10.0 Permits, Lawsand Regulations:

Permitsandlicensesrequiredfortheexecutionoftheworkshallbeobtainedbythe



contractor at his own expenses. The contractor shall give notices and comply with the regulations, laws, and ordinances rules, applicable to the contract. If the contractor observes any discrepancy between the drawings and specifications, he shall promptly notify the SBI in writing under intimation of the Architect/ Consultant. If the contractor performs any act, which is against the law, rules and regulations he shall meet all the costs arisingthereform and shallindemnifythe SBI anylegal actions arisingtherefrom.

11.0 SettingoutWork:

The contractor shall set out the work and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and alignment of all parts thereof and get it approved by the architect / consultant before proceeding with the work. If at any time any error in this respect shall appear during the progress of the works, irrespective of the fact that the layout had been approved by, the architect / consultant the contractor shall be responsible for the same ad shall his own expenses rectify such error, if so, required to satisfaction of the SBI

12.0 Protection ofworks and property:

The contractor shall continuously maintain adequate protection. of all his work from damage and shall protect the SBI's properties from injury or loss arising in connection with contract. He shall make good any such damage, injury, loss, except due to causes beyond his control and due to his fault or negligence.

He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protections of his employees on the works and shall comply with all applicable provisions of Govt. and local bodies' safety lawsandbuildingcodestopreventaccidents,orinjuriestopersonsorpropertyonabout oradjacenttohisplaceofwork.Thecontractorshalltakeinsurancecoversasperclause athisowncost.ThepolicymaybetakeninjointnamesofthecontractorandtheSBland the original policy may be lodged with the SBI

13.0 Inspectionof work:

TheSBI/Architect/Consultantortheirrepresentativesshallatallreasonabletimeshave free access to the work site and / or to the workshop, factories, or other places where materials are lying or from where they are obtained and the contractor shall give every facilityto the SBI/Architect/consultant and their representatives necessaryfor inspection and examinationandtestofthematerialsandworkmanship.Nopersonunlessauthorized by the SBI/ Architect

/Consultant except the representative of Public authorities shall be allowed on the work atanytime.Theproposedworkeitherduringitsconstructionstageoritscompletioncan also be inspected by the Chief Technical Examiner's Organization a wing of Central Vigilance commission.

14.0 Assignmentand subletting:

The whole of workincluded in the contract shallbe executed the contractorand he shall not directly entrust and engage or indirectly transfer, assign or underlet the contract or anypartorsharethereoforinterestthereinwithoutthewrittenconsentoftheSBIthrough



theArchitectandnoundertakingshallrelievethecontractorfromtheresponsibilityofthe contractor from active & superintendence of the work during its progress.

15.0 Qualityof materials,workmanship&Test:

All materials and workmanship shall be best of the respective kinds described in the contract and in accordance with Architect/consultant instructions and shall be subject from time to time to such tests as the architect/consultant may direct at the place of manufactureorfabricationoronthesiteoranapprovedtestinglaboratory. The contractor shall provide such assistance, instruments, machinery, labor, and materials as are normally required for examining measuring sampling and testing any material or part of workbeforeincorporationintheworkfortestingasmaybeselectedandrequiredbythe architect/consultant.

ii) <u>Samples:</u>

All samples of adequate numbers, size, shades & pattern as per specifications shall be suppliedbythecontractorwithoutanyextracharges.lfcertainitemsproposedtobeused are of such nature that samples cannot be presented or prepared at the site detailed literature / test certificate of the same shall be provided to the satisfaction of the Architect/consultant before submitting the sample/literature the contractor shall satisfy himself that the material / equipment for which he is submitting the sample / literature meet with the requirement of tender specification. Only when the samples are approved in writing by the architect/consultant the contractor shall proceed with the procurement andinstallationoftheparticularmaterial/equipment.Theapprovedsamplesshallbythe signed by the Architect / Consultant for identification and shall be kept on record at site office until the completion of the work for inspection / comparison at any time. The Architect/Consultant shall take reasonable time to approve the sample. Any delay that might occurinapproving the samples for reasons of its not meeting the specifications or other discrepancies inadequacy in furnishing samples of best gualities from various manufacturers and such other aspects causing delay on the approval of the materials / equipment etc. shall be to the account of the contractor.

iii) Costof tests:

The costof makinganytest shallbeborne bythe contractorif suchtest is intendedbyor provided for in the specification or BOQ.

iv) <u>Costsoftestsnotprovidedfor:</u>

IfanytestisorderedbytheArchitect/Consultantwhichiseither

a) If so intended by or provided for or (in the cases above mentioned) is not so particularized, or though so intended or provided for but ordered by the Architect / Consultanttobecarriedoutbyanindependentpersonatanyplaceotherthanthesiteor the place of manufacture or fabrication of the materials tested or any Government / approved laboratory, then the cost of such test shall be borne by the contractor.

16.0 Obtaininginformationrelatedtoexecutionofwork:

No claim by the contractor for additional payment shall be entertained which is consequentuponfailureonhisparttoobtaincorrectinformationastoanymatteraffecting



the execution of the worknor any misunder standing or the obtaining incorrect information or the failure to obtain correct information relieve him from any risks or from the entire responsibility for the fulfillment of contract.

17.0 Contractor'ssuperintendence:

The contractor shall give necessary personal superintendence during the execution the works and as long, thereafter, as the Architect/Consultant may consider necessary until the expiry of the defects liability period, stated hereto.

18.0 Quantities:

The bill of quantities (BOQ) unless or otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurements and quantities. The rate quoted shall remain valid for variation of quantity against individual itemtoanyextent. The entire amount paid under Clause 19,20 hereof as well as amounts of prime cost and provision sums, if any, shall be excluded.

19.0 Works tobe measured:

TheArchitect/Consultantmayfromtimetotimeintimatetothecontractorthatherequires the work to be measured and the contractor shall forthwith attend or send a quantity representative to assist the Architect in taking such measurements and calculation and to furnish all particulars or to give all assistance required by any of them. Such measurementsshallbetakeninaccordancewiththeModeofmeasurementsdetailinthe specifications. The representative of the Architect / Consultant shalltake measurements with the contractor's representative and the measurements shall be entered in the measurement book. The contractor or his authorized representative shall sign all the pagesofthemeasurementbookinwhichthemeasurementshavebeenrecordedintoken of his acceptance. All the corrections shall be duly attested by both representatives. No over writings shall be made in the M book should the contractor not attend or neglect or omitto depute his representative to take measurements themeasurements recorded by the representative of the Architect/consultant shall be final. All authorized extra work,

omissions and all variations made shall be included such measurement.

20.0 Variations:

No alteration, omission or variation ordered in writing by the Architect/consultant vitiates the contract. In case the SBI/ Architect / Consultant thinks proper at any during the progressofworkstomakeanyalterationin,oradditionstooromissionfromtheworksor any. Alteration in the kind or quality of the materials to be used therein, the Architect / Consultant shall give notice thereof in writing to the contractor shall confirm in writing withinsevendaysofgivingsuchoralinstructionsthecontractshallalterto,addto,oromit fromasthecasemaybeinaccordancewithsuchbutthecontractorshallnotdoanywork extra to or make any alterations or additions to or omissions from the works or any deviationfromanyoftheprovisionsofthecontract,stipulations,specificationsorcontract drawingswithoutpreviousconsentinwritingoftheArchitect/Consultantandthevalueof such extras, alterations, additions or omissions shall in all cases be determined by the Architect/Consultantandthesameshallbeaddedtoordeductedfromthecontractvalue, as the case maybe.



21.0 Valuation of Variations:

No claim for an extra shall be allowed unless it shall have been executed under the authority of the Architect / Consultant with the concurrence of the SBI as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.

(i) The net rates or prices in the contract shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work price herein.

(ii) Ratesforallitems, wherever possibles hould be derived out of the rates given in the priced BOQ.

The net prices of the original tender shall determine the value of the items omitted, providedifomissionsdonotvarytheconditionsunderwhichanyremainingitemsof Works arecarried out,otherwise theprices for the same shallbe valuedunder sub- Clause 'c' hereunder.

Where the extra works are not of similar character and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items or works are carried out, then the contractor shall within 7 days of the receipt of the letter of acceptance inform the Architect/ consultant of the rate which he intends to charge for such items of work, duly supported by analysis of the rate or rates claimedandthe Architect/consultant shallfixsuch rateorpricesasin the circumstances in his opinion are reasonable and proper, based on the market rate.

Whereextraworkcannotbeproperlymeasuredorvaluedthecontractorshallbeallowed dayworkpricesatthenetratesstatedinthetender,oftheBOQor,ifnot,sostatedthen in accordance with the local day work rates and wages for the district; provided that in either case, vouchers specifying the daily time (and if required by the Architect/Consultant) the workman's name and materials employed be delivered for verificationstotheArchitect/consultantatorbeforetheendof theweek followingthatin which the work has been executed.

Itisfurtherclarifiedthatforallsuchauthorizedextraitemswhereratescannotbederived fromthetender,theContractorshallsubmitratesdulysupportedbyrateanalysisworked on the 'market rate basis for material, labour hire / running charges of equipment and wastages etc. plus 15% towards establishment charges, contractor's overheads and profit. Such items shall, not be eligible for escalation.

22.0 Finalmeasurement:

Themeasurementandvaluationinrespectofthecontractshallbecompleted within two months of the virtual completion of the work.

23.0 VirtualCompletionCertificate (VCC):

On successful completion of entire works covered by the contract to the full satisfaction of the SBI, the contractors hallens ure that the following works have been completed the



satisfactionoftheSBI:

Clearthesiteofallscaffolding, wiring, pipes, surplus materials, contractor's labour equipment and machinery.

Demolish, dismantle and remove the contractor's site office, temporary works, structure including labour sheds/camps and constructions and other items and things whatsoever brought upon or erected at the site or any land allotted to the contractor by the SBI not incorporated in the permanent works.

Removeallrubbish,debrisetc.fromthesiteandthelandallottedtothecontractorbythe SBI and shall clear, level and dress, compact the site as required by the SBI

Shall put the SBI in undisputed custody and possession of the site and all land allot by the SBI

ShallhandovertheworkinapeacefulmannertotheSBI

All defects / imperfections have been attended and rectified as pointed out by the Architects to the full satisfaction of SBI

Upon the satisfactory fulfillment by the contractor as stated above, the contractor is entitledtoapplytotheArchitect/consultantissatisfiedofthecompletionofwork.Relative towhichthecompletioncertificatehasbeensought,theArchitect/consultantshallwithin fourteen(14)daysofthereceiptoftheapplicationforcompletioncertificate,issueaVCC in respect of the work for which the VCC has applied.

This issuance of a VCC shall not be without prejudice to the SBI rights and contractor liabilitiesunderthecontractincludingthecontractor'sliabilityfordefectsliabilitynorshall the issuance of VCC in respect of the works or work at any site be construction as a waiverof anyright orclaim of theSBI againstthecontractorin respect of orworkat the site and in respect of which the VCC has been issued.

24.0 Work byother agencies:

The SBI / Architect / consultant reserves the rights to use premises and any portion the siteforexecutionofanyworknotincludedinthescopeofthiscontractwhichitmaydesire to have carried out by other persons simultaneously and the contractor shall not only allowbutalsoextendreasonablefacilitiesfortheexecutionof suchwork.Thecontractor however shall not be required to provide any plant or material for the execution of such workexceptbyspecialarrangementwiththeSBI.Suchworkshallbecarriedoutinsuch manner as not to impede the progress of the works included in the contract.

25.0 Insuranceofworks:

Withoutlimitinghisobligations and responsibilities under the contract the contractor shall insure in the joint names of the SBI And the contractor against all loss of damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in such a manner that the SBI and contractor are covered for the periodstipulated lclause of GCC and are also covered during the period of



maintenance for loss or damage arising from a cause, occurring prior to the commencementoftheperiodofmaintenanceandforanylossordamageoccasionedby the contractor in the course of any operations carried out by him for the purpose of complying with his obligations under clause.

The Works for the time being executed to the estimated current Contract value thereof, or such additional sum as may be specified together with the materials for incorporation in the works at their replacement value.

The constructional plant and other things brought on to the site by the contractor to the replacement value of such constructional plant and other things.

Suchinsuranceshallbeeffected with an insurer and interms approved by the SBI which approval shall not be unreasonably withheld and the contractor shall whenever required produce to the Architect / consultant the policy if insurance and the receipts for payment of the current premiums.

26.0 Damagetopersons and property:

Thecontractorshall, exceptifands of a rasthecontract provides otherwise indemnify the SBI against all losses and claims in respect of injuries or damages to any person or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and maintenance of the works and against all claims proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation of damages for or with respect to:

a) Thepermanentuseoroccupationoflandbyoranypartthereof.

b) TherightofSBItoexecutetheworksoranypartthereofon,over,under,inorthrough any lands.

c) Injuries or damages to persons or properties which are unavoidable result of the execution or maintenance of the works in accordance with the contract.

d) Injuries or damage to persons or property resulting from any act or neglect of the SBI theiragents, employees orothercontractors not being employed by the contractor or or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereofor in relation thereto or where the injury or damage was contributed to by the contractor, his servants or agents such part of the compensation as maybe just and equitable having regard to the extent of the responsibility of the SBI, their employees, or agents or other contractors for the damage or injury.

27.0 ContractortoindemnifySBI:

The contractor shall indemnify the SBI against all claims, proceedings, damages, costs, chargesandexpensesinrespectofthemattersreferredtointheprovisionsub-clause 26.0of this clause.

28.0 Contractor's superintendence:



The contractor shall fully indemnify and keep indemnified the SBI against any action, claim,orproceedingrelatingtoinfringementoruseofanypatentordesignoranyalleged patent or design rights and shall pay any royalties which may be payable in respect to anyarticle or part thereof included in the contract. In the event of anyclaim made under oractionbroughtagainstSBIinrespectofsuchmattersasaforesaidthecontractorshall beimmediatelynotifiedthereofandthecontractorshallbeatliberty,athisownexpenses to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the SBI if the infringement of the patent or designoranyallegedpatent or designrightisthedirectresultof anorderpassedbythe Architect / consultant in this behalf.

29.0 Third PartyInsurance:

Before commencing the execution of the work the contractor but without limiting his obligationsandresponsibilities under clause 25.0 of GCC shallins ure against his liability for any material or physical damage, loss, or injury which may occur to any property including that of SBI, or to any person, including any employee of the SBI, by or arising out of the execution of the works or in the carrying out of the contract, otherwise than due to the matters referred to in the provision to clause 25.0 thereof.

30.0 Minimum amount of Third PartyInsurance:

Suchinsuranceshallbeaffected with an insurer and interms approved by the SBI which approval shall not be reasonably withheld and for at least the amount stated below. The contractor shall, whenever required, produce to the. Architect / consultant the policy or policies of insurance cover and receipts for payment of the current premiums.

The minimum insurance cover for physical property, injury, and death is Rs.5 Lakh per occurrence with the number of occurrences limited to four. After each occurrence contractor will pay additional premium necessary to make insurance valid for four occurrences always.

31.0 AccidentorInjurytoworkman:

TheSBIShallnotbeliablefororinrespecttoanydamagesorcompensationpayableat lawinrespectorinconsequenceofanyaccidentorinjurytoanyworkmenorotherperson in the employment of the contractor or any sub-contractor, save and except an accident or injury resulting from any act or default of the SBI or their agents, or employees. The contractor shall indemnify and keep indemnified SBI against all such damages and compensation,saveandexceptasaforesaid,andagainstallclaims,proceedings,costs, charges and expenses whatsoever in respect thereof or in relation thereto.

32.0 Insuranceagainstaccidentsetc.toworkmen:

The contractor shall insure against such liability with an insurer approved by the SBI During the whole of the time that any persons are employed by him on the works and shall, when required, produce to the architect / consultant such policy of insurance and receipt for payment of the current premium. Provided always that, in respect of any persons employed by any sub-contractor the contractor's obligation to insured as aforesaidunderthissub-clauseshallbesatisfiedifthesub-contractorshallhaveinsured againsttheliabilityinrespectofsuchpersonsinsuchmannerthatSBlisindemnified



under the policy but the contractor shall require such sub-contractor to produce to the Architect/consultantwhensuchpolicyofinsuranceandthereceiptforthepaymentofthe current premium.

33.0 Remedyoncontractor'sfailuretoinsure:

If the contractor fails to effect and keep in force the insurance referred to above or any otherinsurancewhichhemayberequiredtoeffectunderthetermsofcontract,then and inanysuchcasetheSBI mayeffectandkeepinforceanysuchinsuranceandpaysuch premiumorpremiumsasmaybenecessaryforthatpurposeandfromtimetotimededuct theamount so paid bytheSBI as aforesaidfrom anyamountdue orwhich maybecome due to the contractor, or recover the same as debt from the contractor.

Without prejudice to the others rights of the SBI against contractors. In respect of such default, the employer shall be entitled to deduct from any sums payable to the contractor the amount of any damages costs, charges, and other expenses paid by the SBI And which are payable by the contractors under this clause. The contractor shall upon settlement by the Insurerof any claim made against the insurer pursuant to apolicy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the monies received from the Insurer in respect of such damage shall be paid to the contractor and the Contractor shall not be entitled to any further payment in respect of the expenditure incurred for rebuild ingorrepairing of the materials or goods destroyed or damaged.

34.0 Commencementof Works:

Thedateofcommencementoftheworkwillbereckonedfromthedate ofawardofletter by the SBI

35.0 Time forcompletion:

Timeisessenceofthecontractandshallbestrictlyobservedbythecontractor.Theentire work shall be completed within a period of 30 **Days** from the date of commencement. If required in the contract or as directed by the Architect / consultant. The contractor shall complete certain portions of work before completion of the entire work. However, the completion date shallbe reckoned as the date by which the wholework is completed as per the terms of the contract.

36.0 Extensionoftime:

If, in theopinion of theArchitect/consultant,the workbe delayedforreasons beyond the control of the contractor, the Architect/consultant may submit a recommendation to the SBI to grant a fair and reasonable extension of time for completion of work as per the termsof contract. If the contractorneedsanextension of timeforthe completion of work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion as stipulated in the contract, the contractor shallapply to the SBI Through the Architect' Consultant in writing at least 30 Days before the expiry of the scheduled timeandwhile applyingforextension of timehe shallfurnishthereason indetailandhis justification if an', for the delays. The architect/consultant shall submit their recommendationstotheSBIintheprescribedformatforgrantingextensionoftime.While



grantingextensionoftimethecontractorshallbeinformedtheperiodextendedtimewhich will qualify for levy of liquidated damages. For the balance period in excess of original stipulated period and duly sanctioned extension of time by the provision of liquidated damagesasstatedunderclause10.0shallbecomeapplicable.Furtherthecontractshall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

37.0 Rate of progress:

Whole of the materials, plant and labour to be provided by the contractor and the mode, manner and speed of execution and maintenance of the works are to be of a kind and conducted in a manner to the satisfaction of the Architect/consultant should the rate of progress of the work or any part thereof be at any time be in the opinion the. Architect / consultanttooSlowtoensurethecompletionofthewholeoftheworktheprescribedtime orextendedtimeforcompletiontheArchitect/consultantshallthereupontakesuchsteps as considered necessary by the Architect / consultant to expedite progress so as to completetheworksbytheprescribedtimeorextendedtime.Suchcommunicationsfrom the Architect / consultant neither shall relieve. The contractor from fulfilling obligations underthecontractnorhewillbeentitledtoraiseanyclaimsarisingoutofsuchdirections.

38.0 Workduringnightsandholidays:

Subjecttoanyprovisiontothecontrarycontainedinthecontractnopermanentworkshall save as herein provided be carried on during the night or on holidays without the permission in writing of the Architect/consultant, save when the work is unavoidable or absolutelynecessaryforthesavingoflifeorpropertyorforthesafetyoftheworkinwhich case the contractor shall immediately advise the Architect / consultant. However the provisions of the clause shall not be applicable in the case of any work which becomes essentialtocarrybyrotaryordoubleshiftsinordertoachievetheprogressandqualityof the partof the works being technicallyrequired / continued with the prior approval of the Architect / consultant at no extra cost to the SBI.

All work at night after obtaining approval from competent authorities shall be carried out without unreasonable noise and disturbance.

39.0 Nocompensationorrestrictionsofwork:

If at any time after acceptance of the tender SBI shall decide to abandon or reduce the scope of work for any reason whatsoever and hence not required the whole or any part of the work to be carried out. The Architect / consultant shall give notice in writing that effect to the contractor and the contractor shall act accordingly in the matter. The contractorshallhavenoclaimtoanypaymentofcompensationorotherwisewhatsoever onaccountofanyprofitoradvantagewhichhemighthavederivedfromtheexecutionof theWorkfullybutwhichhedidnotderiveinconsequenceoftheforeclosureofthewhole or part of the work.

Provided that the contractor shall be paid the charges on the cartage only of materials actually and bonafide brought to the site of the work by the contractor and rendered



surplusasaresultoftheabandonment,curtailmentoftheworkoranyportionthereofand then taken back by the contractor, provided however that the Architect/Consultant shall have in such cases the option of taking over all or any such materials at their purchase price or a local current rate whichever is less.

Incase of such stores having been issued from SBI stores and returned by the contractor to stores, credit shall be given to him at the rates not exceeding those at which were originally issued to the contractor after taking into consideration and deduction for claims on account of any deterioration or damage while in the custody of the contractor and in this respect the decision of Architect / consultant shall be final.

40.0 Suspensionofwork:

Thecontractorshall,onreceiptoftheorderinwritingoftheArchitect/consultant(whose decision shall be final and binding on the contractor) suspend the progress of works or any part the offer such time and in such manner as Architect/consultant may consider necessarysoasnottocauseanydamageorinjurytotheworkalreadydoneorendanger the safety thereof for any of following reasons:

a) Onaccountanydefaultonthepartofthecontractor, or

b) Forproperexecutionoftheworksorpartthereofforreasonsotherthanthedefaultthe contractor, or

c) Forsafetyof theworksor partthereof.

The contractor shall, duringsuch suspension, properlyprotectandsecuretheworks the extent necessary and carry out the instructions given in that behalf by the Architect / consultant.

i)If thesuspensionisorderedforreasons (b)and(c)insub-para(i) above:

The contractorshallbeentitledto an extension of time equalto theperiod of everysuch suspension. No compensation whatsoever shall be paid on this account.

41.0 Actionwhen thewhole securitydeposit is forfeited:

In any case in which under any clause or clauses of this contract, the Contractor shall haverenderedhimselfliabletopaycompensationamountingtothewholeof hissecurity deposittheArchitect/consultantshallhavethepowertoadoptanyofthefollowingcourse as they may deem best suited to the interest of the SBI:

Torescindthecontract(ofwhichrescissionnoticeinwritingtothecontractorby-Architect / consultant shall be conclusive evidence) and in which case the security, deposit of the contractor shall be forfeited and be absolutely at the disposal of SBI.

ToemploylabourpaidbytheSBlandtosupplymaterialstocarryoutthework,orpartof the work, debiting the contractor with the cost of the labour and materials cost of such labourandmaterialsasworkedoutbytheArchitect/consultantshallfinalandconclusive against the contractor) and crediting him with the value of the work done, in all respects in the same manner and at the same manner and at the same rates as if it had been carriedoutbythecontractorunderthetermsofthiscontractcertificateofarchitect /consultantastothevalueofworkdoneshallbefinalconclusiveagainstthecontractor.



To measure up the work of the contractor, and to take such part thereof as shall unexecuted, out of his hands, and to give it to another contractor to complete in which caseanyexpenseswhich maybeincurred inexcessof the sumwhich wouldhave been paid to theoriginal contractor, if thewhole workhadbeen executedbyhim (Theamount of which excess the certificates in writing of the Architects / consultant shall final and conclusive)shallbebornebyoriginalcontractorandmaybedeductedanymoneydueto him by SBI under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or sufficient part thereof.

In the event of anyof above courses beingadopted bytheSBI thecontractorshallhave no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advances on account of, or with a view to the execution of the work or the performance ofthecontractandincasethecontractshallberescindundertheprovisionaforesaid,the contractor shall not be entitled to recover or to be paid any sum or any work thereto for actuallyperformedunderthiscontract,unless,anduntiltheArchitect/consultantwillhave certifiedinwritingtheperformanceofsuchworkandthevaluepayableinrespectthereof, and he shall only been titled to be paid the value so certified.

42.0 Owner's righttoterminatethecontract:

If the contractor being an individual or a firm commit any 'Act of insolvency' or shall be adjusted an insolvent or being an incorporated company shall have an order for compulsorywindingupvoluntarilyorsubjecttothesupervisionofGovt.andoftheOfficial Assigneeoftheliquidatorinsuchactsof insolvencyorwindingup shallbeunable within seven days after notice to him to do so, to show to the reasonable satisfaction of the Architect/Consultantthatheisabletocarryoutandfulfillthecontract,andtodyesecurity therefore if so required by the Architect /Consultant.

Or if the contractor (whether an individual firm or incorporated Company) shall suffer execution to be issued or shall suffer anypayment under this contract to be attached by or on behalf of any of the creditors of the contractor.

OrshallassignorsubletthiscontractwithouttheconsentinwritingoftheSBlthroughthe Architect/Consultant or shall charge or encumber this contract or any payment due to which may become due to the contractor there under:

hasabandonedthecontract;or

has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the worksfor14 days afterreceiving from the SBI through the Architect / consultant written notice to proceed, or

has failed to proceed with the works with such diligence and failed to make such due progressaswouldenabletheworkstobecompleted within the time agreed upon, or has failed to remove the materials from the site or topull down and replace work within seven days after written notice from the SBI through the Architect/Consultant that the said



materials were condemned and rejected by the Architect/ consultant under these conditions:orhasneglectedorfailedpersistentlytoobserveandperformalloranyofthe actsmattersorthingsbythiscontracttobeobservedandperformedbythecontactorfor seven days after written notice shall have been given to the contractor to observe or perform the same or has to the detriment of good workmanship or in defiance of the SBI or Architect's / consultant's instructions to the contrary subject any part of the contract. Then and in any of said cases the SBI and or the Architect / consultant, may not withstanding any previous waiver, after giving seven days' notice in writing to the contractor, determine the contract, but without thereby affecting the powers of the SBI or theArchitect/consultantortheobligationandliabilitiesofthecontractorthewholeofwhich shall continue in force as fully as if the contract had not been determined and as if the workssubsequentlyhadbeenexecutedbyoronbehalfofthecontractor.And,furtherthe SBIthroughtheArchitect/consultanttheiragentsoremployeesmayenteruponandtake possession of the work and all plants, took scaffoldings, materials, sheds, machineries lying upon the premises or on the adjoining lands or roads use the same by means of theirownemployeesorworkmenincarryingonandcompletingtheworkorbyengaging anv other contractors or persons to the work and the contractor shall not in any was interruptordoanyact, matterorthingtopreventorhindersuchothercontractoror other persons employed for complement and finishing or using the materials and plant for the works.

When the works shall be completed or as soon thereafter as convenient the SBI Or architect/consultant shall give a notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within 14 days after receive thereof byhim the SBI sellthe same bypublication, and afterdue publication, and shall, adjusttheamountrealizedbysuchauction. The contractor shall have noright to question any of the act of the SBI incidental to the sale of the materials etc.

43.0 Certificateof payment:

The contractor shall be entitled under the certificates to be issued by the Architect / consultanttothecontractorwithin10workingdaysfromthedateofcertificatetopayment fromSBIFromtimetotimeSBIshallrecoverthestatutoryrecoveringotherduesincluding the retention amount from the certificate of payment. Provided always that the issue of any certificate by the Architect / consultant during progress of works or completion shall not have effect as certificate of satisfaction relieve the contractor from his liability under clause.

TheArchitect/consultantshallhavepowertowithholdthecertificateiftheworkorinpart thereof is not carried out to their satisfaction. The Architect/consultant may by any certificate make any corrections required previous certificate.

TheSBIshallmodifythecertificateofpaymentasissuedbythearchitect/consultantfrom time to time while making the payment

The contractor shall submit interim bills only after taking actual measurements and properly recorded in the Measurement books.

TheContractorshallnotsubmitinterimbillswhentheapproximatevalueofworkdoneby him is less than **<u>Rs. NIL</u>**



The final bill may be submitted by contractor within a period of one month from the date of virtual completion and Architect/consultant shall issue the certificate of payment within a period of two months. The SBI Shall pay the amount within a period of three months from the date of issue of certificate provided there is no dispute in respect of rates and quantities.

The contractors hall submit the interimbills in the prescribed format with all details.

<u>44.0</u>

A. Settlementof Disputes and Arbitration:

Except where otherwise provided in the contract all questions and disputes to the meaningofthespecifications, design, drawings and instructions hereinbeforementioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings specifications, estimates, instructions orders or these conditions or otherwise concerning the work or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

If the contractor considers that he is entitled to any extra payment or compensation in respect of the works over and above the amounts admitted as payable by the Architect or in case the contractor wants to dispute the validity of any deductions or recoveries contractorraiseanydispute, madeorproposedtobemadefromthe the contractorshall forthwithgivenoticeinwritingofhisclaim, ordisputeto The Dy. General Manager (B&O), SBI Administrative Office, SURAT and endorse a copy of the same to the Architect, within30Daysfromthedateofdisallowancethereoforthedateofdeductionorrecovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the contractor shall not be entitled to raise any claim nor shall the SBI be in any way liable in respect of any claim by the contractor unless notice of such claim shall have been given by the contractor to the CMGBSBI,AdministrativeOffice,SURATinthemannerandwithinthetimeasaforesaid. TheContractorshallbedeemedtohavewaivedandextinguishedallhisrightsinrespect ofanyclaimnotnotifiedtotheCMGBSBI.AdministrativeOffice.SURAT inwritinginthe manner

and within the time aforesaid.

B. SettlementofDisputesandArbitration:

The Dy. General Manager (B&O), Admin. Office, SURAT shall give his decision in writing ontheclaimsnotifiedbythereceiptofthecontractormaywithin20Daysofthereceiptof the decision of the Submit his claims to the conciliating authority namely the CDO., SBI, LHO, Ahmedabadfor conciliation along with all details and copies of correspondence exchanged between him and the SBI

If the conciliation proceedings are terminated without settlement of the disputes, the contractorshall, within aperiod of **20Days** of termination there of shall give anotice to



theconcerned CDO.of theSBIforappointmentof an arbitratortoadjudicate thenotified claimsfallingwhichtheclaimsofthecontractorshallbedeemedtohavebeenconsidered absolutely barred and waived.

Except where the decision has become final, binding and conclusive in terms of the contract, all disputes or differences arising out of the notified claims of the contractor as aforesaidandallclaimsoftheSBIshallbereferredforadjudicationthrougharbitrationby the Sole Arbitrator appointed by the CDO. and who will be of Deputy General Manager rank.ItwillalsobenoobjectiontoanysuchappointmentthattheArbitratorsoappointed is a SBI,Officer and that hehad todeal with themattersto which the Contract relatesin thecourseofhisdutiesasSBI,Officer.Ifthearbitratorsoappointedisunableorunwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole arbitrator shall be entitled to proceed with the reference from the stage at which it was let by his predecessor.

It is a term of this contract that the party invoking arbitration shall give a list of disputes withamountsclaimedinrespectofeachdisputealongwiththenoticeforappointmentof arbitrator.

It is also a term of this contract that no person other than a person appointed by such Chief General Manager as aforesaid should act as arbitrator. The conciliation and arbitration shall be conducted in accordance with the provisions of the Arbitration &ConciliationAct1996oranyoranyaccordancemodificationorreenactmentthereofand the rules made there under.

ItisalsoatermofthecontractthatifanyfeesarepayabletotheArbitratortheseshallbe paidequallybyboththeparties.However,nofeeswillbepayabletothearbitratorifheis a SBI Officer.

ItisalsoatermofthecontractthattheArbitratorshallbedeemedtohaveenteredonthe reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any of the arbitrators shall, if required to be paid before the award is made and published, be paid half and half by each of the parties. The Cost of the reference and of the award (including the fees, if any of the arbitrator) shall be in the discretion of the arbitrator who maydirecttoanybywhomanddinwhatmanner,suchcostsoranypartthereof,shallbe paid and fix or settle the amount of costs to be so paid.

45.0 Water supply:

The contractors hall make his own arrangements forwater required for the work and nothing extra will be paid for the same. This will be subject to the following condition.

i) Thatthewaterusedbythecontractorshallbefitforconstructionpurposestothe



satisfactionoftheArchitect/consultant's.

ii) The contractor shall make alternative arrangements for the supply of water if the arrangement made by the contractor for procurement of water in the opinion of the Architect / consultant is unsatisfactory.

iii) In case contractor is permitted to use SBI source of water i.e. Municipal connection, Bore well(existingornew)etc., the SBI will recoveras perclause 51.0 of this document form the final bill of contractor.

The contractor shall construct temporary well / tube well in SBI land for taking water for construction purposes only after obtaining permission in writing from the SBI The contractor has to make his own arrangements for drawing and distributing the water at his own cost. He has to make necessary arrangements. To avoid any accidents or damages caused due to construction and subsequent maintenance of the wells. He has toobtainnecessaryapprovalsfromlocalauthorities,ifrequired,athisowncost.Heshall restore the ground to its original condition after wells are dismantled on completion of work or hand over the well to the SBI without any compensation as directed by the architect /consultant.

46.0 Powersupply:

The contractor shall make his own arrangements for power and supply / distribution systemfordrivingplantormachineryfortheworkandforlightingpurposeathisowncost, thecostofrunningandmaintenanceoftheplantsareto beincludedinhistenderprices, Heshallpayallfeesandchargesrequired,bythepowersupplyandincludethesamein histenderedratesandholdtheownerfreefromallsuchcosts.Hehastoobtainnecessary approval from the appropriate authorities, if required.

In case contractor is permitted to use Bank's source of power supply provided at one point, the SBI will recover as per clause 51.0 of this document from the final bill of contractor.

47.0 Treasuretroveetc.

Any treasure trove, coin orobject antique which may be found on the siteshall be the property of SBI and shall be handed over to the bank immediately.

48.0 Method ofmeasurement:

Unless otherwise mentioned in the schedule of quantities or in mode of measurement, themeasurementwillbeonthenetquantitiesorworkproducedinaccordancewithupto date rules laid down by the Bureau of Indian Standards. In the event any dispute/ disagreementthedecisionoftheArchitect/consultantshallbefinalandbindingonthe



corrector.

49.0 Maintenanceof registers:

The contractor shall maintain the following registers as per the enclosed perform at site of work and should produce the same for inspection of SBI /Architect / consultant whenever desired by them. The contractor shall also maintain the records / registers as required by the local authorities / Govt. from time to time.

- i) Registerforsecuredadvance
- ii) Registerforhindrancetowork
- iii) Registerforrunningaccountbill
- iv) Register forlabour

50.0 Force Majeure:

NeithercontractornorSBIshallbeconsideredindefaultinperformanceoftheobligations if such performance is prevented or delayed by events such as but not war, hostilities revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemics, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of or for any other cause beyond the reasonable control of the party affected or prevents or delayed. However, anotice is required to be given within 30 Days from the happening of the event with complete details, to the other party to the contract, if it is not possible to serve a notice, within the shortest possible period without delay.

Assoonasthecauseofforcemajeurehasbeenremovedthepartywhoseabilityperform its obligations has been affected, shall notify the other of such cessation and the actual delay incurred in such affected activity adducing necessary evidence in support thereof.

Fromthedateofoccurrenceofacaseofforforcemajeureobligationsoftheparty affected.

51.0 Waterpowerandotherfacilities:

Theratequotedbythecontractorshallincludeallexpensesthatarerequiredforproviding all the water required for the work and the contractor shall make his own arrangements for the supplyofgood quality watersuitable for the construction and good quality drinking water for their workers If necessary the contractor has to sink a tube well

/openwellandbringwaterbymeansoftankersathisown costforthepurposeTheSBI will not be liable to pay any charges in connection with the above

The rate quoted in the tender shall include the expenses for obtaining and maintaining power connections and shall pay for the consumption charges

The contractors for other trades directly appointed by the SBI shall be entitled to take power and water connections from the temporary water and power supply obtained by the contractorHowever,theconcerned contractorshallmaketheirown arrangementsto



drawthesupplyandpaydirectlytheactualconsumptionchargesatmutuallyagreedrates betweenthem.AllmunicipalchargesfordrainageandwaterconnectionforConstruction purposes shall be borne by the contactor and charges payable for permanent connections, if any, shall be initially paid by the contactor and the SBI will reimburse the amount on production of receipts.

The SBI as well as the Architect / consultant shall give all possible assistance to the Contractor's to obtain the requisite Permission from the various authorities, but the responsibility for obtaining the same in time shall be of the contractor.

IncasecontractorispermittedtouseBank'ssourceofwaterandpowersupplyprovided at one point, the SBI will recover @ 0.50% of final bill amount for water and electricity (combined) from the bill of contractor.

52.0 Facilities for contractor's employees:

The contractor shall make his own arrangement for the housing and welfare of his staff andworkmenincludingadequatedrinkingwaterfacilities.Thecontractorshallalsomake thearrangementsathisowncostfortransportwherenecessaryforhisstaffandworkmen to and from site of work at his own cost.

53.0 Lighting ofworks:

The contractor shall at all times provide adequate and approved lighting as required for the proper execution and supervision and inspection of work.

54.0 Firefightingarrangements:

The contractor shall provide suitable arrangement for firefighting at his own cost. This purpose he shall provide requisite number of fire extinguishers and adequate numberof buckets,someofwhicharetobealwayskeptfilledwithsandandsomewithwaterthese equipment shall be provided at suitable prominent and easily accessible place and shall be properly maintained.

Anydeficiencyin thefiresafetyorunsafe conditionsshallbecorrected bythecontractor athisowncostand,totheapprovaloftherelevantauthorities.The contractormakesthe following arrangements at his own cost but not limited the following:

- a) Properhandling, storage and disposal of combustible materials and waste.
- b) Workoperationswhichcancreatefirehazards.
- c) Accessforfire-fightingequipment.
- d) Type,numberandlocationofcontainersfortheremovalofsurplusmaterialsand rubbish.
- e) Type, size, number and location of fire extinguishers or other tire fighting equipment.
- f) Generalhousekeeping.

55.0 Siteorderbook:



A site order book shall be maintained at site for the purpose of quick communication between the Architect / Consultant. Any communication relating to the work may be conveyed through records in the site order book. Such a communication from one party to the other shall be deemed to have been adequately served in terms of contract Each site order book shall have machine numbered pages in triplicate and shall carefully maintained andpreserved bythe contractorand shall bemadeavailable to thearchitect /consultant as and when demanded- Any instruction which the architect/consultant may liketoissuetothecontractororthecontractormayliketobringtothearchitect/consultant two copies of such instructions shallbe takenfrom the siteorderbook andone copywill behandedovertothepartyagainstproperacknowledgmentandthesecondcopywillbe retained for their record.

56.0 Temporaryfencing/barricading:

The contractor shall provide and maintain a suitable temporary fencing/barricading and gates athis costtoadequatelyencloseallboundaries of the site for the protection of the public and for the proper execution and security of the work and in accordance with the requirement of the architect/consultant and regulations of local authorities. These shall be altered, relocated and adopted from time to time as necessary and removed on completion of the work.

57.0 Site meetings:

Site meetings will be held to review the progress and quality evaluation. The contractor shall depute a senior representative along with the site representative and other staff of approved sub-contractors and suppliers as required to the site meetings and ensure all followupactions. Any additional review meetings shall held if required by the architect/ consultant.-

58.0 Disposal ofrefuse:

The contractor shall cart away all debris, refuse etc. arising from the work from the site and deposit the same as directed by the architect / consultant at his own cost. It is the responsibilityofthecontractortoobtainfromthelocalauthoritiesconcernedtotheeffect that all rubbish arising out of contractor's activities at the construction site or any other off-site activities borrow pits has been properly disposed off.

59.0 Contractor to verifysite measurement:

The contractor shall check and verify all site measurements whenever requested other specialists contractors or other sub-contractors to enable them to prepare the own shop drawing and pass on the information with sufficient promptness as will in any way delay the works.

60.0 Displayingthenameofthework:



The contractor shall put up a name board of suitable size as directed by the architect/ consultant indicating there in the name of the project and other details as given by the architect/consultant at his own cost and remove the same on completion of work.

61.0 Asbuiltdrawings:

For the drawings issued to the contractor by the Architect / Consultant. The architect Consultant will issue two sets of drawings to the Contractor for the items for some changes have been made. From the approved drawings as instructed by the SBI / Architect / Consultant. The contractor will make the changes made on these copies and return these copies to the architect / Consultant for their approval. In cases revision is requiredorthecorrectionsarenotproperlymarkedthearchitect/Consultantwillpointout the discrepancies to the contractor. The contractor will have to incorporated these correctionsand/orattendtodiscrepancieseitheroncopiesasdirectedbythearchitect / consultant will return one copy duly approved by him.

Forthedrawings preparedbythe contractor:

The contractor will modify the drawing prepared by him wherever the changes made by the SBI / architect / consultant. And submit two copies of such modified drawings to the architect/ consultant for approval. The architect / consultant will return one copy of the approved drawing to the contractor.

62.0 Approved make:

The contractors hall provide all materials from the list of approved makes at his own cost and also appoint the specialized agency for the waterproofing, anti-termite treatment, aluminum doors and windows and any other item as specified in the tender. The architect/consultant may approve any make/agency within the approved list as given in the tender after inspection of the sample/mockup.

63.0 Procurementofmaterials:

The contractor shall make his own arrangements to procure all the required materials for the work. All wastages and losses in weight shall be to the contractors account.

64.0 Exciseduty.taxes.leviesetc.;

The contractor shall pay and be responsible for payment of all taxes, duties, levies, royalties, fees, cess or charges in respect of the works including but not limited to sales tax, tax on works contract excise duty, and Octroi, payable in respect of materials, equipment plant and other things required for the contact. All of the aforesaid taxes, duties,levies,feesandchargesshallbetothecontractor'saccountandtheSBIShallnot be required to pay any additional or extra amount on this account. Variation of taxes, duties, fees, levies etc. if any, till completion of work shall be deemed to be included in the quoted rates and no extra amount on this account. Variation of taxes, leviesetc.ifany,tillcompletionofworkshallbedeemedtobeincludedinthequoted



rates and no extra claim on this account will in any case be entertained. If a new tax or duty or levy or cess or royalty or Octroi is imposed under as statutory law during the currency of contract the same shall be borne by the contractor. However, GST will be paid extra.

65.0 Acceptanceof tender:

The SBI shall have the right to reject any or all tenders without assigning any reason. Theyarenottobindtoacceptthelowestoranytenderandthetendererortenderersshall have no right to question the acts of the SBI. However adequate transparency would be maintained by the SBI.

66.0 Photographs:

The Contractor shall at his own expense supply to the Architects with duplicate hard copies of large photographs not less than 25 cm. x 20 cm. (10" x 8") of the works, taken from two approved portions of each building, at intervals of not more than one months during the progress of the work or at every important stage of construction.

In addition to above, the contractor shall be bound to submit adequate no. of site photographsalongwitheachRunningBillfortheprojectclearingshowingmajorprogress of work measured and claimed therein failing which the Architect/ SBI may consider returning the Bill to the contractor and no claim for delay on this account will be entertained.

67.0 SafetyCodes:

- 1. Firstaidappliancesincludingadequatesupplyofsterilizeddressingandcottonwoolshall be kept in a readily accessible place.
- 2. An injured person shall be taken to a public hospital without loss of time, in cases when the injury necessitates hospitalization.
- 3. Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from the ground.
- 4. No portable single ladder shall be over 8 meters in length. The width between the side railsshallnotbelessthan30cm.(clear)andthedistancebetweentwoadjacentrunning's shall not be more than 30 cm. When a ladder is used an extra labour shall be engaged for holding ladder.
- 5. The excavated material shall not be placed within 1.5 meters of the edge of the trench half of the depth of trench whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.
- 6. Everyopeninginthefloorof abuildingorinaworkingplatformbeprovidedwithsuitable means to prevent the fall of persons or materials by providing suitable fencing or railing



whoseminimumheightshallbeonemeter.

- 7. No floor, roof orotherpart of the structure shallbe so overloaded with debris ormaterial as to render it unsafe.
- 8. Workers employedon mixingandhandling material suchasasphalt,cement,mortar, concrete and lime shall be provided with protective footwear and rubber hand gloves.

9Thoseengagedinweldingworksshallbeprovidedwithwelders'protectiveeyeshieldand gloves.

- 10. (i) No paint containing lead or lead products shall be used except in the form of paste readymade paint.
- (ii)Suitablefacemasksshouldbesuppliedforusebytheworkerswhenthepaintapplied in the form of spray or surface having lead paint dry rubbed and scrapped.
- 11. Overalls shall be supplied by the contractor to the painters and adequate facilities shall be provided to enable the working painters to wash during cessation of work.
- 12 Hoisting machinesand tackle used in theworks including theirattachments anchor and supports shall be in perfect condition.
- 13. The ropes used in hoisting or lowering material or as a means of suspension shall bedurable quality and adequate strength and free form defects.



1) NameoftheorganizationOffe	ering Contract:		st Gen Manager VALSAD 396001
2) Consultants :	Ar.AJAY CHOWDH		
,			DADRA AND NAGAR HAVELI,RBO-4VALSAD.
4) Scope of Work			BIR A K H O L I BRANCH, DIST R HAVELI,RBO-4VALSAD.
5) Nameof the Contractor		:	
6) AddressoftheContractor		:	
7) Period of Completion		:	30days fromthedateof Issue of work order.
8) EarnestMoneyDeposit		:Rs.3	,700/- bymeans of Demand Draft/Pay Order (Valid for a period of 90 Days from the last date of submission of the tender) from anyscheduledNationalizedBank drawn in favor of State Bank of India. and payable at SURAT. (Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD, they should submit registration certificate of 'MSME UDYAM')
9) Retention Money		:	Asperclauseno.1.4of general Conditions
10) Defects Liability Period Completion.		:Twel	eMonthsfromthedateof Virtual
11) Insurancetobeundertake	enbythe:		125%ofContractValue Contractor at his cost (Contractor's all risk policy)
12) Liquidateddamages		:	0.5%oftheContractamount
Ar.Ajay Chowdhury	49		Sign&Sealof contractor



shown in the tenderperweek subject tomax. 5% of the contract value oractual final bill value.

13) Value of Interim Bill(Min.)	:	Only full and final payment shall be made after satisfactory completionofwork
14) Date of Commencement	:	From the date of work order issued to the Contractor/ or the day on which the Contractor is instructedtotakepossessionof the site whichever is earlier.
15) PeriodofFinalMeasurement	:	2MonthsfromthedateofVirtual Completion.
16) InitialSecurityDeposit	:	NIL of the Accepted Value of the Tender.
17) TotalSecurityDeposit	: includingISD.	5% of thefinalbillamount
18) RefundofinitialSecurityDeposit comprising of EMD and ISD.	:	50% of the Security Depositshall be refunded to the Contractor on completion of the work and balance refunded only aftertheDefectLiabilityPeriodis over.
19) PeriodforHonoringCertificate	:	OneMonthfor R.A.Bills

20) ThefinalbillwillbesubmittedbytheContractorwithinonemonthof thedatefixed for completion work and the Bill shall be certified within 3 months from the date of receiptoffinalbillprovidedthebillsaresubmittedwithallpre-requisite documents/test reports etc. prescribed in the tender.

Signature of Tenderer.

Date:



To, The Asst Gen Manager State Bank of India RBO-4,VALSAD396001 DearSir,

PROPOSEDELECTRICALWORKSOFSBIRAKHOLIBRANCH.DIST.-DADRA AND NAGAR HAVELI, RBO-4VALSAD.

Havingexamined the terms& conditions, drawings, specifications, design relatingto the worksspecified in the memorand umhere in afterse to utand having visited and examined the site of the works specified in the said memorand umand having acquired there quisite information relating thereto and affecting the quotation, I/We here by offer to execute the works specified in the said memorand um within the time specified in the said memorand um on the item rate basis mentioned in the attached schedule and in accordance in all respect with the specifications, design, drawings and instructions in writing referred to inconditions of Tender, the articles of agreement, conditions of contract and with such conditions so far as they may be applicable.

(a)	Descriptionof work	ProposedElectricalworksofSBIRAKHOLIBR ANCH,DISTDADRA AND NAGAR HAVELI,RBO-4VALSAD.
(b)	Earnest Money	Rs. 3,700/- by means of Demand Draft / Pay Orderfrom anyscheduled Nationalized Bank drawn in favor of SBI and payable at VALSAD.(Contractors registered with 'MSME UDYAM' need not submit EMD. Instead of EMD,theyshouldsubmitregistration certificateof'MSMEUDYAM')
(c)	Timeallowedforcompletionof work from the date of issue of workorder.	30days fromthedateofcommencementas per tender.

MEMORANDUM

Should this tender be accepted, I/we hereby agree to abide by and fulfill the terms and provisions of the said conditions of Contract annexed hereto so far as they may be applicableorindefaultthereoftoforfeitandpaytoSBI,theamountmentionedinthesaid conditions.

I/wehavedepositedDemandDraft/Banker'sChaqueforasumof**Rs.3,700/-**asEarnest money deposit with the State Bank of India. Should I/we do fail to execute the contract whencalledupontodoso,I/weherebyagreethatthissumshallbeforfeitedbyme/usto SBI.

Weunderstandthataspertermsofthistender, the SBI may consider accepting our



tenderinpartorwholeormayentrusttheworkofvariousbuildingsproposed(i.e.Institute Building, Staff Qtrs. And Director's Bungalow/Interior work) in phases. We, therefore, undertake that we shall not raise any claim/compensation in the eventuality of Bank decidingtodropanyofthebuilding/buildingsfromthescopeofworkofthistenderatany stage during the contract period. Further, we also undertake to execute the work entrustedtousinphasesonourapprovedratesandwithinthestipulatedtimelimitwithout any extra claim for price escalation as provided for in Clause 9.0.1 "Instructions to Tenderers" of this tender.

We, hereby, also undertake that, we will not raise any claim for any escalation in the pricesofanyofthematerialduringthecurrencyofcontract/execution/completionperiod.

Yours faithfully,

Signature of contractorWithSeal



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:

- i. Nameof Contractor/Agency
- ii. NameofWork
- iii. Sr. No. of thisBill:
- iv. No.&DateofpreviousBill:
- v. ReferencetoAgreementNo.
- vi. DateofWrittenorder tocommence:

vii. DateofCompletionasperAgreement

S. No	Item Description	Unit	Rate (Rs.)	Aspe	erTender	Up Previ Bill	to iousR.A.	Up (Gros		Prese Bill	nt	Remarks
				Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	
1	2	3	4	5	6	7	8	9	10	11	12	13

Note:

1.	Ifpartrate isallowedforanyitems, it shouldbeindicatedwithreasonsforallowing such a rate.	
		NetValuesinceprevious bill
2.	Ifad-hocpaymentismade, it should be mentioned specifically.	



No.-----

Signatureanddateof Contractor	Signatureanddateof Architects Representative(Seal)	Signatureanddateof Site Engineer

Theworkrecordedintheabove-mentionedmeasurementshasbeendoneatthesite

satisfactorily as per tender drawings, conditions and specifications.

Architect	SignatureanddateofSiteEngineer



TABLE -XV

MEMORANDUMFOR PAYMENT

R/ABILL NC).	
1.	Total valueof workdonesince previous bill (A)	Rs
2.	Totalamountofsecuredadvancedue since Previous Bill (B)	Rs
3.	TotalamountduesincePreviousBill (C)(A+B)	Rs
4.	PVAonaccountofdeclarationinprice of Steel, Cement and other materials andlabourasdetailedinseparate statementsenclosed.	Rs
5.	TotalamountduetotheContractor	Rs
	OBJECTIONS:	
i)	SecuredAdvancepaidintheprevious R/A	Rs
ii)	Retentionmoneyonvalue of worksas per accepted tenders up to date amountRs.	Rs
	Lessalreadyrecovered	Rs
	Balancetobe recovered	Rs
iii)	MobilizationAdvance,ifany	Rs
(a)	Outstanding amount(principal+ interest) as on date	Rs
(b)	Toberecovered inthisbill	Rs
iii.	AnyotherDepartmentalmaterialscost to be recovered as per contract, if any	Rs
iv.	Any other Departmental service chargestoberecoveredifany,asper contract(water,poweretc.)enclose statement.	Rs

Thebillamountto Rs------ (bothfigures and words) has been scrutinized by usafter due checking of the measurements of work as required and is recommended for payment.

Date:----

SignatureofArchitect with Seal



ThebillamounttoRs------ certifiedbyConsultantshasbeenscrutinizedbymeafterduetest checkingofmeasurementsofworksasrequiredandisrecommendedforpaymentforanamountof Rs.....

Date : -----

SignatureofBanks/SBIEngineer

	STATUTORYDEDUCTION:	
i)	TotalAmountdue(E)	Rs
ii)	LessI.T.Payable	Rs
iii)	LessS.T.Payable	Rs
	Net Payable	Rs

ThisfiguresgivenintheMemorandumforpayablehasbeenverifiedandbillpassedforpayment------ (inwordsandfigures)

Date:-----

SignatureoftheManager,SBIVALSAD



SPECIFICATIONOF MATERIALS

All the material to be used shall be as per the specified make of the materials list and ISI approved Brand. Any deviation from this shall be got approved from Architect/Owner, the contractor shall submit samples of material to be used for verifications and Produce Bill in original.

1. SAMPLES : Afterreceiptofthebidsbutpriortoawardofthecontract, bidder shall, Upon notification from owner submit samples of materialsheintendstoUse.

The owner shall reserve the right to evaluate the sample with regardtotheSpecificationbeforeawardofwork.Samplesas directed by the Architect / Owner for various items shall be prepared/broughtforapprovalwithoutAnycost. Special

Notes:

a) Thesuccessfultendered will have to supply the make of the materials as recommended and in consultation with the Client / Architect / Consultant without any extra cost. Client/Architect/Consultant reserve the rights to choose any make out of above list.

- b) Tenderershouldhavetospecifythelistofmakesconsideredinthetenderwhilequoting the rates in the tender, in covering letter of separate letter enclosure. However, the final decision for accepting make specified by tenderer would be of client / Architect / Consultants.
- c) Asfaraspossible,thesuccessfultendererwillhavetoplaceorderdirectlytothe manufacturerorit'sauthorizeddealer.
- d) Theclient/Architect/ConsultanthaverighttoChecktheChallansof supplier.
- e) TheRCCB,RCBO,MCBandMCBDBsmustbeofsamemake.
- f) Makeofcomponentsrequiredtobeusedbycontractortocompletetheinstallation,if notmentioned anywhere, shall be requiredtoGOT itApproved byClient / Architect/ Consultant before installation in writing manner.
- g) Within a week of work order, the contractor shall submit the sample of each item / componentofabove-mentionedapprovedmakefortheapprovaloftheClient/Architect /Consultant.



APPLICABLESTANDARDS

<u>Sr.No.</u>	ISNo.		Description
1)	IS:2026-1977 IS 3639	:	Distributingtransformers&fittings. Fittings and acc. For P.T.
2)	IS:7886 IS:660	:	InstallationofTransformer.
3)	IS:2516-1972	:	SpecificationforACcircuitBreakers.
4)	IS:335	:	InsulatingoilforTransformers& switchgear.
5)	IS:2705	:	CTformeasuringandprotection.
6)	IS:3155	:	Voltage(Potential)Transformers.
7)	IS:3236Part II	:	VoltageTransformer.
8)	IS:373	:	Busbararrangementandmarking.
9)	IS:2099	:	Bushing
10)	IS:5621	:	LargeHollowPorcelains
11)	IS:2544	:	Insulators
12)	IS:2629&2633	:	HotDipGalvanizing
13)	IS:3842	:	Relays.
14)	IS:1248-1958	:	Meters(measuring).
15)	IS:3072-1975	:	InstallationofSwitchgears.
16)	IS:692	:	HVcable.
17)	IS:1255	:	InstallationofHVcablesandjointing.
18)	IS:3043	:	Codeofpracticeforearthing.
19)	IS:4047-1977	:	HDAirbreaker, Switchgearsandfuses for Voltagenotexceeding 1000 Volts.
20)	IS:8106-1966	:	Selection, installationandmaintenanceoffuses upto 650 Volts.
21)	IS:4237-1967	:	forvoltagenotexceeding1000Volts.
22)	IS:2607-1976	:	Air-breakisolatorsforVoltagenotexceeding1000Volts.
23)	IS:8623-1977	:	Factorybuiltassemblies of switchgearsandcontrolgearsfor
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	24)	IS:375-196	63	voltageuptoandincluding1000VoltsA.C.and1200VoltsD.C. : Markingandarrangementofswitchgearbusbarsmain connectorsandauxiliarywiring.
25)	IS:2147-1	962	:	CubicalBoards.
26)	IS:8084-1	972	:	Insulated conductor rating.
27)	IS:2675-1	983	:	EncloseddistributionfuseboardsandcutoutsforVoltagenot exceeding1000Volts.
28)	IS:8828-1	978	:	MiniatureCircuitBreaker.
29)	IS:9926-1	981	:	Fusewireusedinre-wearabletypeelectricfusesupto650Volts.
30)	IS:1554(P	artl)	:	PVCinsulatedelectriccables Heavyduty.
31)	IS:3961(P	art II)	:	Recommended currentrating for cables.
32)	IS:2982		:	Copperconductorininsulatedcablesandcores.
33)	IS:8130		:	Conductorforinsulatedelectriccablesandflexiblerods.
34)	IS:3975		:	Mildsteelwires, strips and tapes for armouring cables.
35)	IS:5831		:	PVCinsulationandsheathofelectric cables.
36)	IS:1753		:	Aluminumconductorforinsulatedables.
37)	IS:4288		:	PVCinsulatedandPVCsheathedsolidaluminumconductor cablesofvoltageratingnotexceeding1100volts.
38)	IS:961		:	Recommendedcurrentratingfor Cable.
39)	S:732		:	CodeofpracticeforelectricalwiringinstallationsystemVoltage notexceeding650Volts.
40)	IS:1646		:	CodeofpracticeforfiresafetyofBuildings(general)electrical installation.
41)	IS:1653		:	Rigidsteelconduitsforelectrical wiring.
42)	IS:2667		:	Fittingsforrigidsteelconduitsforelectricalwiring.
43)	IS:3480		:	Flexiblesteelconduitforelectricalwiring.
44)	IS:3837		:	Accessoriesforrigidsteelconduitsforelectricalwiring.
45)	IS:694		:	PVCinsulatedcables(wires).
46)	IS:2509		:	Rigidnon-metallicconduitsforelectricalwiring.
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47)	IS:6946	:	Flexible(playable)nonmetallicconduitsforelectrical installation.
48)	IS:1293	:	Threepinplugsandsockets.
49)	IS:8180	:	Conductorsforinsulated electrical cables and flexible codes.
50)	IS:9537-1980	:	Specificationforconduitforelectricalinstallation.
51)	IS:3419	:	Accessoriesfornon-metallicconduitsforelectricalwiring.
52)	IS:3854	:	Switches.
53)	IS:6538	:	Plugs.
54)	IS:2834-1954	:	ShuntCapacitorsforpowersystems.
55)	IS:2208 :		artridgefuseandlinksupto660 volts.
56)	IS:1913-1969	:	Generalandsafetyrequirementforlightingfittings.
56) 57)	IS:1913-1969 IS:2944-1981	:	Generalandsafetyrequirementforlightingfittings. Codeofpracticeforlightingpublicthoroughfares.
,		: : :	
57)	IS:2944-1981	: : :	Codeofpracticeforlightingpublicthoroughfares.
57) 58)	IS:2944-1981 IS:3528	: : : :	Codeofpracticeforlightingpublicthoroughfares. Waterproofelectriclightingfittings.
57) 58) 59)	IS:2944-1981 IS:3528 IS:3553-1966		Codeofpracticeforlightingpublicthoroughfares. Waterproofelectriclightingfittings. Watertightelectriclightingfitting.
57) 58) 59) 60)	IS:2944-1981 IS:3528 IS:3553-1966 IS:1239-1958	:	Codeofpracticeforlightingpublicthoroughfares. Waterproofelectriclightingfittings. Watertightelectriclightingfitting. MildSteeltubularandotherwroughtsteelpipefitting.
57) 58) 59) 60) 63)	IS:2944-1981 IS:3528 IS:3553-1966 IS:1239-1958 IS:2149-1970	:	Codeofpracticeforlightingpublicthoroughfares. Waterproofelectriclightingfittings. Watertightelectriclightingfitting. MildSteeltubularandotherwroughtsteelpipefitting. Luminariesforstreetlight.

NOTE:All codes and standards means the latest where not specified otherwise the installation shall generally followtheIndianStandardcodesofpracticeorrelevantBritishStandardCodesofPracticeintheabsence of corresponding Indian Standards.

PLEASEFOLLOW:

- a. IndianElectricityActof1910andrulesissuedthereunderreviseduptodate.
- b. SpecialAttentionshouldbegiventoRuleNo.50.
- c. RegulationsforelectricalequipmentinbuildingissuedbyTheBombayRegionalCouncilofinsurance Association of India



ELECTRICALMATERIALSPECIFICATION

DISTRIBUTIONBOARDS

Thescopeofworkshallcoversupply, installation testing and commissioning of all distribution boards-

Standards:

ASPERSCHEDULEOFINDIANSTANDARDS, ATTACHEDINTHEDOCUMENT.

DistributionBoards:

Distribution boards along with the controlling MCB's/Fuse or Isolator as shown shall be fixed in an M.S. Box with hingeddoor suitableforrecessedmountinginwall. Distributionboardsshallbemadeof 18SWGsteelsheet duly rustinhibitedthroughaprocessofde-greasing,acidpickling,phosphateandpowdercoatedtoanapprovedcolorof adequate micron rating duly approved by architect/consultant.

Threephaseboardsshallhavephasebarriersandawirechannelonthreesides.Neutralbarsshallbesolidtinned copper barswithtappedholesandchaseheaded screws. For 3phaseDB's, 3. independent neutralbarsshallbe provided. All DB's shall be internally pre-wired using copper insulated PVC wires brought to a terminal strip of appropriate rating for outgoing feeders.

Conduitknockoutsshallbeprovidedasrequired/shownondrawingsandtheentireboardshallberendereddustand verminproofwithnecessarysealinggaskets.ThetopandbottomsideofDBshouldbedetachable.

MCB'sshallhavequickmakeandbreaknon-weldingself-wipingsilveralloycontactsfor10KAshortcircuitbothon themanualandautomaticoperation.Eachpoleofthebreakershallbeprovidedwithinversetimethermaloverload and instantaneous over current tripping elements, with trip - free mechanism. In case of multi-pole breakers, the tripping must be on all the poles and operating handle shall be common. Breakersmust conform toBS 3871 with facilityforlockinginOFFposition.Pressureclampterminalsforstranded/solidconductorinsertionareacceptableup to4sq.mm.aluminumor2.5sq.mm.copperandforhigherratings,theterminalsshallbesuitablyshrouded.Wherever MCBisolators are specified theyare without the tripping elements.

FusesshallbeHRClinktypere-wireablewithnecessaryfusecarriersandwithratingofnotlessthan25MVA.Bottle typefusesarenotacceptable.Fusecarrierterminalsshallbesuitablyshrouded.Re-wireablefusecarriersshallbe porcelain. HRC fuses formotor duty should be time lag type.

Distribution boards shall have HRC/re-wire able fuses as shown on the schedule and drawings. Board shall meet with the requirements of IS2675 and marking arrangement of busbarsshall be in accordance with I.S. standards.

Busbarsshallbesuitablefortheincomingswitchratingandsizedforatemperatureriseof35°Covertheambient. Eachboardshallhavetwoseparateearthingterminals.Circuitdiagramindicatingtheloaddistributionshallbepasted ontheinsideoftheDBasinstructed.Oneearthingterminalforsinglephaseandtwoterminalsfor3phaseDB'sshall beprovidedwithanearthstripconnectingthestudsandtheoutgoingECUearthbar.

In the case of MCB distribution boards, the backupfuses where vershown shall be not less than 63 A with a delayed characteristic and a minimum pre-arcing time of 0.5 sec. At 9KA/3KA fault current.



All outgoing feeders shall terminate on a terminal strip which in turn is interconnected to the MCB/Fuse base by means of insulated single conductor copper wires asfollows :

Upto15A		2.5sq.mm.	40A	10sq.mm.
25A	4.0sq.mm.	63A	16sq.mm.	

32A 6.0sq.mm.

RCCB/MCB:

TheRCCBshouldsufficesalltherequirementsofISaspercodeIS –12640–1988.TheRCAshouldbecurrent operated and not on line voltage.

TheRCCBshouldensuremainlythefollowingfunctions.

Measurement of the fault current value.

Comparisonofthefaultcurrentwithareferencevalue.

The RCCB should have a torroidal transformer which has the main conductors of primary (P-N) which check the sum of the current close to zero.

Allmetalpartsshouldbeinherentlyresistanttocorrosionandtreatedtomakethemcorrosionresistant. It

should be truly current operated. Itshouldoperateoncorebalancetorroidaltransformer. It'saccuracyshouldbe±5%. Itshouldoperateevenincaseofneutralfailure. Itshouldtripatapresentleakagecurrentwithin30M.S. It'senclosureshouldbeasperIP30. It'smechanicaloperationlifeshouldbemorethan20,000operations.

ItshouldprovidefullprotectionasenvisagedbylErules-61-A,71-ee,73-ee,1985andalsorule50ofIE rule1956.

ItshouldconformtoallnationalandinternationalstandardslikeIS8828:1993,IS12640–1988,BS4293–1983, CEE27(InternationalcommissionRulesfortheapprovedof electricalequipment)



MEDIUMVOLTAGECABLING

Scope:

ThescopeconsistsofLaying&testingL.T.Cableanditstermination.

Standards:

ASPERSCHEDULEOFINDIANSTANDARDS;ATTACHEDINTHEDOCUMENT

Cables:

Allcablesshallbe1100VoltgradeXLPEinsulated, sheathed withor without steelar moring as specified and with an outerPVC protective sheath. Cablesshall have high conductivity stranded aluminum or copper conductors and cores color coded to the Indian Standards. All cables laid up to load should be without any joint.

Allcablesshallbenewwithoutanykindorvisibledamage. The manufacturers name, insulating material, conductor size and voltage class shall be marked on the surface of the cable at every 600 mm centers.

Cablejointsandtermination:

Connectors :

Cable terminations shall be made with copper Heavy duty long nack copper crimping lugs only crimped type solder less lugs for all aluminum cables and stud type terminals. For copper cables copper crimped solder less lugsshallbeused.Crimpingshallbedonewiththehelpofhydraulicallyoperatedcrimpingtool.Allcablelugs should be long neck type only.

CableGlands:

Cableglandsshallbeofheavydutybrasssinglecompressiontypeasspecified.Generallysinglecompressiontype cable glands shall be used for indoor protected locations and double compression type shall be used for outdoor locations. Glandsfor classifiedhazardousareasshallbeCMRSapproved.

Ferrules:

Ferrulesshallbeof self stickingtypeandshallbeemployedtodesignatethevariouscoresofthecontrolcableby theterminalnumberstowhichthecoresareconnected,foreaseinidentificationandmaintenance.

Cablejoints:

Kittypejointshallbedoneandfilledwithinsulatingcompound.Thejointshouldbefor1.1KVgradeinsulation.



CONDUITWIRING

- 1.0 Scope:
- 1.1 Thescopeofworkshallcoversupply,installationtestingandcommissioning of all.

1

- 2.0 Standards :Asperannexure-iv
- 3.0 RigidandFlexibleconduits
- 3.1 AllPVCconduitsshallbelaidinopen/concealedmannerwhichareapprovedbyF.I.A. &
- I.S.I. & of 25 mm.Diameter.
- **3.2** Flexibleconduitsshallbeformedfromacontinuouslengthofspirallywoundinterlocked steel strip with a fused zinc coating on both sides. The conduits shall be terminated in brass adapters.
- 4.0 Accessories :
- 4.1 PVCconduitfittingssuchasbends,elbows,reducers,chasenipples,splitcouplings,plugs etc. shall be specifically designed and manufactured for their particular application.All conduit fittings shall conform to IS:2667-1974 and IS:3887-1966.All fitting associated with galvanized conduit shall also be galvanized.
- 5.0 Wires:
- 5.1 Allwiresshallbesinglecoremulti-strand/flexiblecopperorsinglestrandAluminum/Copper,PVCinsulated as per IS:694 and shall be 660v/ 1100V grade.

Colourofwire

5.2 Allwiresshallbecolorcodedasfollows: Phase

Red
Yellow
Blue
Black
insulated)
Grey
SameasPhasewire

5.3 Colorcodeshouldbestrictlyusedforallwiring.

- ii) Installation, commissioning and testing.
- iii) Cablemarking.



Forcableburiedunderground

- i) Cablesandprotectivebricks&tiles.
- ii) Installation, commissioning&testing.
- iii) Cablemarkers.

6.0 Switches& Sockets:

- 6.1 Switches shall be module type/ flush piano type with silver-coated contacts.Sockets shall be 3 pin with switchandplatetypecover.Combinationofmultipleswitchunitsandsocketsshouldbeusedtominimize the switch boxes.
- 6.2 Forheavyduty, metalcladsockets with M.C.B./Isolator mounted in a galvanized steel boxshall be provided.
- 7.0 Installation:
- 7.1 Conduitsshallbekeptataminimumdistanceof100mm.Fromthepipesofothernon-electricalservices. And maintain minimum 300 mm distance between telephone, TV & Computer piping.
- 7.2 Separateconduits/racewaysshallbeusedfor:
 - 1. Normallightsand5A3pinsocketsonlighting circuit.
 - 2. SeparateconduitshallbelaidfromD.B.toswitchboardorpoint.
 - 3. Poweroutlets –15A3pin20A/30A,2pinscrapingearthmetalcladsockets.
 - 4. Emergencylighting.
 - 5. Telephones.
 - 6. Firealarmsystem.
 - 7. Publicaddresssystem&Music system.
 - 8. Forallothervoltageshigherorlowerthan230V.
 - 9. T.V.Antenna.
 - 10. Waterlevelguard.
 - 11. ComputerWiring.
- 7.3 Callbellwiringlayoutofconduitsshallbegenerallyindicatedondrawingsandthelayoutshallbe supplemented and complemented by contractor on site with approval of the Engineer.
- 7.4 Wiring for short extensions to outlets in hung ceiling or to vibrating equipments, motors etc., shall be installed inflexible conduits. Otherwise rigid conduits shall be used. Noflexible extensions hall exceed 1.25m.
- 7.5 Conduits run on surfaces shall be supported on metal 12 mm. thick saddles which in turn are properly screwedtothewallorceiling.Saddlesshallbeatintervalsof notmorethan500mm.Fixing screwsshall bewithroundorcheeseheadandofrust-proofmaterials.Exposedconduitsshallbeneatlyrunparallelor at right angles tothe walls of the building.Unseemlyconduit bends and offsets shall be avoided byusing fabricatedmildsteeljunction/pullthroughboxesforbetterappearances.Nocross-overofconduitsshallbe allowed unless it is necessary and entire conduit installation shall be clean and neat in appearance.
- 7.6 Conduits embedded into the walls shall be fixed by means staples at not more than 500 mm. intervals. Chasesinthewallsshall beneatlymadeandrefilledafterlayingtheconduitandbroughttothefinishof the wall but final finish will be done by the building contractor. The contractor shall provide wire mesh before making rough plaster.
- 7.8 Conduitsburiedinconcretestructureshallbeputinpositionandsecurelyfastenedtothereinforcement andgot approved bytheEngineer, beforetheconcreteis poured.Propercare shall betakento ensure



thattheconduitsareneitherdislocatednorchokedatthetimeofpouringtheconcretesuitablefishwires shall be drawn in all conduits before they are embedded.

- 7.9 Inspection boxes shall be provided for periodical inspection to facilitate withdrawal and removal of wires. Such inspection boxes shall beflush with thewall orceiling inthecase of concealed conduits.Inspection boxes shall be spaced at not more than 12meters apart or two 90° solid bends or equal.All junction and switchboxesshallbecoveredby6mm.clearPerspexplatetrulycutandfixedwithcadmiumplatedbrass screws.These junction boxes shall form part of point wiring or conduit wiring as the case may be including the cost of removing the Perspex cover for painting and re-fixing.No separate charges shall be allowed except where specially mentioned.
- 7.10 Conduits shallbefreefrom sharpedges andburrsandthethreadingfreefromgreaseor oil. Theentire system of conduits must be completely installed and rendered electrically continuous before the conductors are pulled in.conduits should terminate in junction boxes of not less than 32 mm. deep.
- 7.11.1 Aninsulatedearthwireofcopperratedcapacityshallberunineachconduitforentire length.
- 8.0 Lighting&PowerWiring:
- 8.1 allfinalbranchcircuitsforlightingandappliancesshallbesingleconductor/stranded/flexi-cablesrun inside conduits. The conduit shall be properly connected or jointed into sockets, bens, and junction boxes.
- 8.2 All circuits shall preferably be kept in a separate conduit up to the Distribution Board.No other wiring shall be bunched inthesame conduit except those belonging tothesamephase.Each lighting branch circuitshallnothavemore than tenoutlets or 800 wattswhicheverislower.Eachconduitshallnothold more than three branch circuits of same phase.
- 8.3 Flexiblecordsforconnectiontoappliances,fansandpendantsshallbe650/1100Vgrade(threeorfour cores i.e with insulated neutralwire of same size)with tinned stranded copper wires, insulated,twisted and sheathed with strengthening cord.Color of sheath shall be subject to the Engineer's approval.
- 8.4 Looping system of wiring shall be used.Wires shall not be jointed.Where joints are unavoidable, they shallbemadethroughapprovedmechanicalconnectors.Nosuchjointsshallbemadeunlessthelength of the sub-circuit, sub-main or main is more than the length of the standard coil.
- 8.5 Controlswitchesshallbeconnected in the phase conductors only. Switchesshallbefixed in 3 mm. thick painted orgalvanized steel boxes with cover plates asspecified. Cadmium plated brass screws shall be used.
- 8.6 Power wiring shallbedistinctlyseparatefromlighting wiring.Conduitsnotlessthan25mm.andwires not less than 2.5 sq. mm. copper shall be used.
- 8.7 Everyconductorshallbeprovided with identification ferrules at bothends matching the drawings.
- 9.0 Testing:
- 9.1 Theentireinstallationshallbetestedfor:
 - a) Insulationresistance.



- b) Earth continuity.
- c) Polarityofsinglepole switches.

AtestcertificateshallbesubmittedinthePerformashownunderAppendix-I.

- 10.0 Modeof measurement:
- 10.1 The definition of point wiring shall be in accordance with sketch drawing and should wiring from D.B. onwards together with all junction boxes, connectors, earth wire, fixing accessories, connection toall light fittings switches etc. as specified and shown on drawings. The point rate shall include circuit wiring from distributionboardtoswitchboardand/ordirectlytothepoint. The circuitwireshallbeinseparateconduit. The contractor may draw maximum 2/3 circuits of the same phase in circuit mains conduit.
- 10.2 Allswitchessocketswithboxes,earthinginterconnectionandplatetypesilver contact switch shall be inclusive in point wiring.
- 10.3 Allemptyconduitruns, including junction boxes fishwire setc. shall be paid on the basis of unit length.

Measurements shall be along the conduit and concurrent length of sub-circuit wiring.

- 10.4 Buzzerindicatorofthewaysspecifiedshallconsistofindicatinglamps,resetbutton,electromagnet, Perspexcoverplate,chromiumplatedbrassscrewsetc. shallbeconsideredasonunitformeasurement and payment.
- 10.5 Two way light points shall be classified according to and consist of 2 Nos.2 way plate type switches, wiringfromthe1st 2wayswitchtothe2nd2wayswitchtothefirstlightcontrolled.Subsequent lights, if any, shall be measured as ordinary secondary point.

EARTHING

Scope:

TheScopeofworkshallcoversupplyofearthingstations, layingcopperearthstripsandconnecting the powerpanels, DB's and switch boards.

Standards:

ASPERANNEXURE-IV.

PlateEarthingStation:

Thesubstationearthingshallbewithcopperplateearthingstationunlessotherwisespecified.

Theearthingstationshallbeasshownonthedrawing.Theearthelectrodesshallbe450x450x3mm/600x600 x6mm.Copperplate–asspecifiedinB.O.Q.Theearthresistanceshallbemaintainedwithasuitablesoiltreatment as shown on drawings.

Theresistanceofeachearthstationshouldnotexceed1ohms.

Theearthleadshallbeconnectedtotheearthplatethroughcopper/brassboltsasshownon the drawing.

Minimumdistancebetweentwoearthpitsshallbe2Mts.

Allearthpitsshallbeminimum1Mt.Awayfrombuildingfoundation.

PipeEarthingStation:



Theearthstationshallbeasshownonthedrawingandshallbeusedforequipmentearth grid. Theearthelectrodeshallbe2.5m.long50mm. Diametergalvanized steelpipe. The earthresistanceshallbemaintained with a suitable soil treatment as shown on drawings.

Theresistanceofeachearthstationshouldnotexceed5ohms.

Theearthleadshallbefixedtothepipewithaandsafetysetscrews.Theclampsshallbepermanentlyaccessible.

Earthleadsandconnections:

Earthleadshallbebarecopperoraluminumorgalvanizedsteelasspecifiedwithsizesshown ondrawings.AtroadcrossingsnecessaryHumepipesshallbelaid.Earthleadrunonsurfaceof wall or ceiling shall be fixed on saddles or wall.

The complete earthing system shall be mechanically and electrically bonded to provide an independent return path to the earth source.

EquipmentEarthling:

Allapparatusandequipmenttransmittingorutilizingpowershallbeearthedinthefollowing manner.Copperearthwiresshallbeusedunlessotherwiseindicatedinthescheduleofwork and drawings.

Powertransmissionapparatus:

Metallicconduitshallnot beacceptedasanearthcontinuityconductor.Aseparate insulated/bareearthcontinuityconductorofsize50%ofthephaseconductorsubjecttothe minimum and maximum shall be provided.

Non-metallicconduitshallhaveaninsulatedearthcontinuityconductorofthesamesizeasfor metallicconduit.Allmetaljunctionandswitchboxesshallhaveaninsideearthstudtowhich theearthconductorshallbeconnected.Theearthconductorshallbedistinctlycolored(green) for easy identification.

Inthecaseofcable, an earth continuity conductors hall either berun outside along the cable or should form a separate insulated core of the cable.

ThreePh.Powerpanelsanddistributionboardsshallhave2distinctearthconnectionsofthesizecorrelatedtothe incomingcablesize.Incaseof1Ph.DB'sasingleearthconnectionisadequate.Similarlyfor3Phand1Phisolating switchesthereshallbe2and1earthconnectionsrespectively,sizesbeingcorrelatedtotheincomingcable.

Testing:

Thefollowingearthresistancevaluesshallbemeasuredwithanapprovedearthmeggarandrecorded. Each

earthing station

Earthingsystemasawhole

Earthcontinuityconductors

Modeofmeasurements:

Providingearthingstationcompletewithexcavation, electrode, wateringpipe, soiltreatment, masonrychamberwithcastironcoveretc.shallbetreated as one unit of measurement.

Thefollowingitemsofworkshallbemeasuredandpaidperunitlengthcoveringthecostofthe earth wires/strips clamps, labor etc.



Mainequipmentearthinggridandconnectionstotheearthingstations.

Connectionstotheswitchboard, powerpanels, distribution board setc.

The cost of earthing the following items shall be come part of the cost of the item itself and no separate payment for earthing shall be made.

Isolatingswitchesandstartersshouldformpartofmountingframe, switchstarteretc. Light

fittings -formpart of installation of the light fitting.

Conduitwiringcabling-shouldformpartofthewiringorcabling.

TELEPHONEDISTRIBUTION

Thiscoversupply, installation, testing, commissioning of telephonesystem.

1) Thescopeofworkshallcoversupply,installation,commissioningandtestingof:

Telephone cables

Telephone Tag Blocks

Telephonewiringinconduits

Thetelephoneexchangeandthehandsetsshallbesuppliedbytheclients.

2) Conduits:

Conduitsshallbeasgivenbelow:

Indoor: mediumgaugeRigidPVCconduit. Ifinflooringprovideheavygauge. Theconduitshallgenerallybeasspecifiedundersection`CONDUITWIRING'.

3) CablesandWires:

Thetypeofcablesandtheservicesshallbeasfollows:

IndoorMultipair,PVCinsulatedsheathedarmoredandsheathed. Inside

Twin core PVC insulated with conduit twisted cores.

Allmulticorecables and wires shall be of tinned copper conductor of not less than 0.5 mm dia and shall be color coded twisted pairs with rip cord.

The conductor resistances hall be less than 150 ohmsper KM and the insulation resistance between the conductors not less than 50 megaohms and the nominal capacitance of about 0.1 microfar adperkilometer.

Cableslaidundergroundorlocationssubjecttodampnessandfloodingshallbefilledwith Polyethylenecompoundandshallhavesufficientprotectionagainstmoistureandwater ingress.



Allarmoringshallbeofgalvanizedsteelwiresandprotectedagainstcorrosionbyanouter sheathofPVCinthecaseofindoorcablesandpolyethyleneinthecaseofoutdoorcables. Outer sheathing must befire retarding and anti - termite.

Allunarmoredsinglecorecablesandinnersheathofarmoredcablesshallbeprovided with rip cord.

Allsinglepaircablesforfinalextensiontothetelephoneoutletboxshallbeunarmoredtinnedcopperconductors ofnotlessthan0.6mm.Diameterandshallbedrawninconduits.Alltelephoneoutletsshallconsistof 2A2 pairpolytheneconnector inG.Iboxwith6mmbusbarcover withbusbaredgesandchromiumplatedbrass hardware.

Tagblocks:

Thetelephonetagblocksshallbesuitableforthemulticoretelephonecablesandshallhavetwoterminalblocks, cross connect type. All incoming and outgoing cables shall be terminated on separate terminal blocks and terminationshallbesilversoldered. The cross connecting jumpers shallbe insulated wires of same diameter and screw connected.

Thetagblocksshallbemountedinsidefabricatedsheetsteelboxeswithremovablehingedcovers andshallbe fullyaccessible.Theenclosureshallbepaintedwith2coatsofredoxideandstovebusbar.

Installation:

Theinstallation of conduits shall generally be as specified under section `CONDUITWIRING'.

Telephone/Datapipesshallbekept100frompowerconduit.

Separate J.B. shall be provided for telephone & Computer.

Allcablesshallbeoncableracksandneatlystitchedtogether.

The connection at the tagblocks shall be silver soldered so as to achieve minimum contact resistance.

Thefinalbranchconnectionswithsinglepaircablesinconduitsandthemaximumnumberof cables in each conduit shall be as follows :

Conduitdi	ameter inch	Max.N	No.ofcables mm.	
³⁄₄"20		2Nos.singlepair		
	1"	25	6Nos.singlepair	
	1¼"32		12Nos.singlepair	
	1½"40		18Nos.singlepair	

INSTALLATIONTESTSCERTIFICATE



BYELECTRICALCONTRACTOR

ThiscontractoristocertifythattheworkiscarriedOutworkconfirmingtoIERulesand Code of

practice. He has to give the test report is under.

- InsulationResistancetest is R-NM.Ohms Y-NM.Ohms B-NN.Ohms
- (ii) Loadtest:-

(i)

5A-1000WPowerPoint-15Minutes

15A-3000WPowerPoint-15Minutes

- (iii) Earthresistanceforeachelectrode 1 Ohm
 2 Ohm
 3 Ohm
 4-N-EVolts
 (iv) Certificateofmakesofmaterialsusedinthework
 - (v) Circuitdiagram
 - (vi) Certified that the electrification work has been carried out under the supervision of licensed Electrical supervision.
 - (vii) Certifiedthattheearthingplate/pipehasbeenverifiedandPlacedat Correct depth confirming to IE Rules.

SignatureofElectricalSupervisionSignatureofContractor Name:

LicenseNo.:



IMPORTANTPOINTSTOBENOTED

- 1) RatesforLIGHT,FAN,EX.FAN,CALLBELL,RAWPOWERETC.POINTSincludesthe Costofmainwires and PVC pipes from LDB-ROW POWER DB to DIFFERENT SWITCHBOARDSWITHREQUIRECIRCUITS.
- 2) RatesforCOMPUTERPOWERPOINTS include the cost of wires and PVC pipes from UPSDB To COMPUTERPOWERPOINTS.
- 3) Ratesfor**COMPUTERI/O**includethecostof**DATA**cablesandPVCpipesfrom **SERVERSWITCH**to**COMPUTERNODES**.
- 4) Ratesfor**TELEPOINTS**includethecostofTELEPHONEWiresandPVCpipesfrom **EPABX/CRONEBOX**to**TELE.POINTS**.
- 5) RatesforA.C./POWERPOINTS include the cost of wires and PVC pipes from A.C.DB to DIFFERENTA.C.ANDPOWERPOINTS WITH REQUIRE CIRCUITS.
- 6) THECONTRACTORSHOULDSUBMITTHE BUILTUPSLDOFPANEL,SLDOFDIFFERENTDBS TODIFFERENTSWITCHBOARDSWITHNUMBERING,SLDOFDATARACKTODIFFERENT I/O POINTS WITH NUMBERING, TELE. KRONE BOX TO DIFFERENT TELE.POINTS WITH NUMBERING, ETC. AFTEREXECUTION OF THE BRANCH. – 2 SETS OFCOPIES – 1WITHLAMINATION.
- 7) THECONTRACTORSHOULDUSEMAX. 3CIRCUITSINONECONDUITFORUPS&RAWPOWERPOINTS.
- 8) THECONTRACTORSHOULDUSEMAX.3WIRESOFDATA&TELE.INONECONDUIT.
- 9) EVERYCONDUITFORUPS, RAWPOWER, DATA&TELE., POWERPOINTS, ACPOINTS , LIGHTINGPOINTSSBSHOULDBESEPARATE.
- 10) FORDATA&TELE.POINTS,BIGJUNCTIONBOXMUSTBEREQUIRED.
- 11) FORUPS&RAWPOWERPOINTS,BIG/SMALLJUNCTIONBOXMUSTBEREQUIRED.
- 12) EMPTYCONDUITMUSTBELAIDFORSECURITYSYSTEM.
- 13) PVCCONDUITSMUSTBECLAMPEDWITHSADDLESINCEILINGONLY.
- 14) ELE.CONTRACTORMUSTSUBMITCERTIFIEDLOADLISTWITHELE.LIC ENSE NO./SUPERVISOR CERTIFICATE NO.
- 15) CONTRACTORSHOULDSUBMITTESTREPORT.
- 16) CONTRACTORSHOULDPRESENTEARTHINGPLATESBEFOREEX



APPROVEDMAKELISTOFEQUIPMENTANDACCESSORIES

1	PVC rigid conduits &Accessories(FRLS)	1.5mmthickISlandFIAapproved - Precision/Vraj/Nihir /BLP/PFI/Anchor/Polycabmake.(Onlywhitecolouredpipes tobeused.).
	MS Pipeconduit&Accessories(MM SISIMark)	BEC/BHATAR/ERW/AKGMake(MMS)
2	L.T.Cables	Havells/Diamond/KEI/Finolex./PolyCab
3	Wires(FRLS)	R.R.Kable/Havells/L&T/KEl/PolyCab
4	MainDistributionBoards	MDSLegrand(Lexic)/Hager/CrabtreeXPRO/Schneider (Eazy9)L&TExora/ C&SWintrip
5	ELCB/RCCB/MiniatureCircuit Breaker	MDSLegrand(Lexic)/Hager/CrabtreeXPRO /Schneider(Eazy9)L&TExora/C&SWintrip
6	SwitchGears	MDSLegrand(Lexic)/ Hager/CrabtreeXPRO/Schneider(Eazy9)L&TEXORA/C &SWintrip
7	ChangeOverSwitch	HPLSocomac/Havells/L&T./Hager
8	Domesticfittings	
	a)AllSwitchingModularAccess ories.	SchneiderLivia/L&TOris/CrabtreeVerona/SalzerS90 (ElitePlate) /LegrandMyris.
	b)Holder/Ceillingroses	AnchoreorEquivalentApprovedmake.
	c)AdhesiveTape	Bhor(SteelGrip)orapproved.
9	10-30APolycaRBO-2nate Socket& Top	MDSLegrand(Lexic)/Hager/CrabtreeXPRO/Schneider(Eazy9). L&TEXORA/C&SWintrip
10	TelephoneWires/Cable	Finolex/R.R.Kable/Havells/L&T./Polycab
11	Telephonetagblock	Krone make.
12	CableLugs	Dowell/Lotus/Jainson/3D.
13	Cable glandSingle/ DoubleCompression	HMI/Comet/3D.



14	Ammeter/Voltmeter	AE/HPL/MECO/Enerconmake.				
15	Selectorswitches	L&Tsalzer/Kayceemake.				
16	Indicatorlamps	LEDtypeTeknic/Precifine/Binay.				
17	Connectorstrips	Wago/Elmexmake.				
18	LightingFixtures	Philips/Havells/GE/Crompton/OrientMake.				
19	Exhaustfan(Lightduty)	Khaitan/Crompton/Havells./Luminious.				
	Exhauotran(Eightaaty)					
20	CeilingFan	Orient(PSPO)/Crompton(HighBreeze)/Havells/Luminious.				
21	WallmountedFan	Crompton/Khaitan/Havells/Luminious.				
22	DataCable-I/OUnit	D-Link./DigiLink				
	LIGHTINGFIXTURES-SEE	ECATNO.&SPECIFIEDMAKEINTHEFINANCIALBID.OR				
	APPROVEDEQUIVALENTASPERAPPROVEDMAKELISTDIRECTEDBYARCHITECT/BANK					

Note:

- [a] WhereotherMaterialareproposedtobeusedtheseshouldbegotApprovedfrom the Architect before execution of particular item. Incase of Non- Availability of any material of specified make, The Alternative should be used only after it is Approved in writing by the Employer or the Architect. The Material shall be used in preferential Order only
- [b] Beforestartingofworkcontractormustgetallsamples/makeapprovedfrom Architect before using at site.
- [c] Consultantsreservetherighttoaddordeletenameofanymanufacturesand when required.
- [d] Consultantsreserverightstoselectanyofthespecifiedbrandsmentioned above.



BOQ : Interior Decoration & Furniture work : ELECTRICAL WORK of RAKHOLI BRANCH, RAKHOLI, RBO VALSAD, SAO for State Bank of India.

Sr. No.	DESCRIPTION	Q TY	UNI T	RAT E	AMO UNT	
	NOTE : ALL CHARIS OR CHASES IN WALLS / COLUMNS / SLABS MADE BY THE ELECTRICAL CONTRACTOR FOR INSTALLATION OF CONDUITS / S.B. / BOXES ETC. THE FILLING OF THE SAME IS IN THE SCOPE OF THE ELECTRICAL CONTRACTOR INCLUDING ALL NECESSITY MATERIAL AND LABOUR.					
	PART - A :::: BRANCH					
A	<i>INTERNAL WIRING</i> :Phase wire must be Red colour for LDB, Yellow colour for PDB & Blue for ACDB, Neutral Wire of Black colour & Green Wire for Earthing. Color code must be maintained. Tagging from DB MCB and Switch board must be done.					
1	SITC of point wiring in concealed in walls, furniture's & for above false ceiling, or on ceiling, on beams shall be fixed with saddles & spacers etc., with conduits taken in slab with 20 mm dia PVC Rigid conduits 1.5 mm thick ISI mark with 2 nos. of 1.5 sq. mm. phase & nutral & 1 nos. of 1.0 sq. mm. earthing with modular switch with company made flush metal box/surface PVC box etc. comp. with nec. main lines for switch board from LDB of mains of 2 nos. of 2.5 sq.mm wire and 1 no.of 1.0 sqmm pvc Insulated copper conductor wire FRLS type laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark .These will be used with point wiring of light, fan, ex. fan, callbell points, etc { Max. 3 Switchboards in one circuit - One Sp MCB }.Phase wire must be Red colour, Nutral Wire must be Black color & Green Wire for Earthing. Color code must be maintained. Tagging from Lighting DB MCB and Switch board must be done.					
1.1	One 5A switch controling one light / fan point.	30	nos			
1.2	One switch controlling Two light points .	20	nos			
1.4	5A socket outlet with 5A switch (on common board) (1 FOR WATER COOLER).	15	nos			
1.5	5A socket outlet with 5A SP switch (as an independent point) [for ex. Fan, wall fan , QMS, Token M/C Display, etc. points.]	16	nos			
1.6	Call bell point with bell push complete.	1	nos			



1.7	SITC of loop light points 0f 2 nos. of 1.5 sq. mm. off wires & 1 nos. of 1.0 sq. mm. earth wire from Main panel timer of mains of 2 nos. of 2.5 sq.mm wire and 1 no.of 1.0 sqmm pvc Insulated copper conductor earth wire laying in with 20 mm/25 mm dia type PVC rigid conduits 1.5 mm thick ISI mark. (<u>This point is for Signage and Down Lighter Points at Entrance) - 2 for outside.</u>	2	nos	
1.8	SITC of loop light points 0f 2 nos. of 1.5 sq. mm. off wires & 1 nos. of 1.0 sq. mm. earth wire from from nearest light point laying in with 20 mm/25 mm dia type PVC rigid conduits 1.5 mm thick ISI mark on digital wall.	3	nos	
2.1	SITC of 6/16 Amp. Switch and socket complete with necessory require wiring from LDB of 2 no of 2.5 sq mm wires and 1 no of 1.0 sq mm PVC Insulated copper conductor earth wire laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark. These will be used with point wiring of power points ,etc. No Looping of Neutral or earthing is allowed. Each point needs to provide seperate circuit.This Points Need to Be Connected through LDB. (For Cash Room, Locker Room, Record room - wiring points).	3	nos	
2.2	SITC of 6/16 Amp. Switch and socket complete with necessory require wiring from PDB of 2 no of 4.0 sq mm wires and 1 no of 2.5 sq mm PVC Insulated copper conductor earth wire laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark. These will be used with point wiring of power points ,etc No Looping of Neutral or earthing is allowed. Each point needs to provide seperate circuit.This Points Need to Be Connected through PDB. (For Printer, Water Cooler, Freeze, Motor, Note Counting Machine points).	4	nos	
3	SITC of 20 A/ 25 A, 230 V, with DP RCCB, 100 mA all enclosed in a prefabricated M S boxes complete to the satisfaction of E.I.C. For SPLIT AC 1.5TR / 2.0 TR unit with necessory require wiring from ACDB of 2 no of 4.0 sqmm wires and 1 no of 2.5 sqmm PVC Insulated copper conductor wire FRLS type laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark. These will be used with point wiring of A.C. points ,etc . Color code must be maintained. Tagging from DP MCB and AC point must be done.This point should be installed near Split / window AC in concealed manner. No Looping of Neutral or earthing is allowed. Each point needs to provide seperate circuit. The height of switchboard must be at reachable point for easily operation.from that point to Split AC,empty conduit + necessary bends must in concealed mode by ele. contractor. THE ENCLOSURE SHOULD BE SAME MAKE AS MCB MAKE.	8	nos	



В	LIGHTING FIXTURES :			
	(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED			
	WITH THE ARCHITECTS / CONSULANTS BEFOTE ORDERING THEM.			
	SITC of (including supply and fixing flexible wires from holder to			
	fixtures hardwares etc.) of The LED lamps should be of same			
	make as fixture make The marking & cutting of fixtures should be in ele. contractor's scope fixtures should be approved by			
	bank's ele. engineer / ele. consultant / architect. from the given			
	make list before installations. LM 79 & LM 80 test reports to be			
	submited. nichia / LUmileds / cree - LED should be used by			
4	manufacture. Lighting Luminaire of LED for Office single piece			
	die cost aluminium M24 housing complete with driver unit,			
	mirror optic and other accessories Lamps of about 100 lumen/W			
	injection moulded PC diffusers with high brightness complete			
	unit complying with international standard (LU49, LH801) -			
	opertive on 190V - 270 V 50 Hz with Mini 3 years warranty			
	complete with mounting stystem and lamp dully wired and tested			
	Details as under.			
	SITC of LED 1 x 36 W (3100 lumens) (2' X 2') RECESS			
	MOUNTED LUMINAIRE with 2KV surge protection, making			
	earthing conection complete to be recessed in false ceiling with all			
	necessary hardwares, hanging - die cast frame arrangement, chains			
4.1	or hook arrangement with ceiling, connected to supply wire with PVC connector. Earthing connection with lugging need to given to	7	nos	
	body of Fixture, etc. complete. (Crompton Model ORION II Cat			
	Ref No: LCTLRN-36-FO-CDL, CCT 6000 K and CRI > 80, lumen			
	O/P > 3300 lumen, System wattage (LED + Driver) < 40 Watt. or			
	Equivalent in GE/ Philips / Havells / Wipro make).			
	Removal & reinstallation of exisitng LED (2' X 2') RECESS			
	MOUNTED LUMINAIRE with making earthing conection			
	complete to be recessed in false ceiling with all necessary			
4.1A	hardwares, hanging - die cast frame arrangement, chains or hook	10	nos	
	arrangement with ceiling, connected to supply wire with PVC			
	connector. Earthing connection with lugging need to given to body			
	of Fixture, etc. complete.			
	SITC of 1 x 12 W Square / Round LED DOWN LIGHT pressure die			
	cast fixture with 2KV surge protection (950 lumens) to be			
	recessed in false ceiling with all necessary hardwares, chains, hook			
	etc. complete.(CROMPTON make cat no. Crompton Model CROM			
	LCDD-15-CDL/TL/ WW ,CCT 6000 K and CRI > 80,Lumen			
4.2	output1450 lumen, System wattage(LED + Driver) 12 Watt or	11	nos	
	Equivalent in GE / Philips / Havells / Wipro make). Energy			
	Efficient round recessed mounted LED down lighter with			
	premium white powder coating and die cast aluminium housing.			
	as per details above. Die casting material should not be CRCO			
	type material. should be connected to supply wire with PVC			



	connector. Earthing connection with lugging need to given to body of Fixture.			
4.2A	Removal & reinstallation of exisitng 1x12 W Square / Round LED DOWN LIGHT from to be recessed in false ceiling with all necessary hardwares, chains, hook etc. complete. Earthing connection with lugging need to given to body of Fixture.	20	nos	
4.3	SITC of LED tube light 1 x10 W (560 lumens) Surface mounting type with LED tube, complete. (Crompton Model : LINNET; CAT Ref No: LCL-07-CDL or Equivalent PHILIPS / GE / Wipro make). For Toilet area.	3	nos	
4.4	Supply and insallation of Call bell with Indicatore. (Max or equivalent make)	1	nos	
4.5	SITC of Exhaust fan of 300 mm, fresh air vantilator type complete & 6 Amp. 3 pin TOP. (Crompton/ Khaitan / Havells make) [Wooden mounting frame should be fixed in coordination with carpenter - furniture contractor.] - Two Ex. Fan are of heavy duty industrial for Ups room.	6	nos	
4.6	SITC of 48" Ceiling Fan with fan step socket modular regulator, Max. 3 feet Fan Rode, Anchor Fastner, etc. (WHITE COLOUR - BEE 5 star labeled ceiling fan Alluminium body and copper winding.) (Orient PSPO or Equivalent approved make in Crompton / Havells Model High Breeze Plus BEE 5 Star labeled ceiling fan , Aluminium body , copper winding .).	3	nos	
4.7	SITC of 1 x 18W led batten light fixture (T-5) with electronic driver and tube complete with necessory hardwares, etc and per watt lumens output must be above 120/watt and 90%lumems maintaiance for 90% of life with input voltage 90-270v ac 50hz operational without affecting the life, input mov.gtd protection in driver for above 270v protection. and 2 years waranty.LED Batten Comprises of Thermally conductive material. Pre-wired with high efficiency electronic driver. High translucent frosted diffuser gets glare free, smooth light distribution. (Cormpton / GE/ Philips / Havells / Wipro make).	12	nos	
4.8	SITC of 450 mm sweep wall mounted fan with metal body, metal stand, guard and blade, 6 a. 3 pin top With on site 2 years warranty. (ALMONARD tempest mark II or equivalent make.) Wall fan with PVC body strictly rejected.	4	nos.	



4.10	SITC of Decoretive 3 W / 5 W (180 lumens) LED EYE BALL LIGHT fixture with its driver also. (wipro make or philips or equivalent co. make). (Approved by Architrct) basic rate of fixture Rs. 350/ (<u>This is for light on digital wall b/h. swo area).</u>	3	nos	
С	COMPUTER POWER SUPPLY & NETWORKING - TELE. SYSTEM.: Phase wire must be Yellow colour for UPS O/P DB, Red colour for PDB, Neutral Wire of Black colour & Green Wire for Earthing. Color code must be maintained. Tagging from DB MCB and Switch board must be done.			
5	SITC of 2 nos. of 6 A, 5 pin Sockets and 1 no. of 6 \ 16 A socket below table outlets with one 16 A switche with indicator Computer power supply with concealed company made metallic boxes or PVC flush box on walls / furniture's / trunking etc complete all respect with necessory wiring of mains of 2 no of 2.5 sq mm and 1 no of 1.5 sqmm pvc insulated copper conductor multi-stranded flexible wire with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. complete from UPSDB to Computer power supply boards.{Maxi. 3 computers in one circuit}. complete with necessary termination etc. complete.[White Colour Outer Plate For These Switchboards]. LOOP POINTS MUST BE OF SAME SIZED WIRES. Phase wire must be Red colour, Nutral Wire must be Black color & Green Wire for Earthing. Color code must be maintained. Tagging from UPS O/P DB MCB and Switch board must be done.	19	nos	
6	SITC of 2 nos. of 6 A, 5 pin Sockets and 1 no. of with one 6 A switches raw power supply with concealed company made metallic boxes or PVC flush box on walls / furniture's / trunking etc complete all respect with necessory wiring of mains of 2 no of 2.5 sq mm and 1 no of 1.5 sqmm pvc insulated copper conductor multi-stranded flexible wire with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. complete from PDB to Computer power supply boards.{Maxi. 3 Raw Power Points in one circuit}. complete with necessary termination etc. complete [Black Colour Outer Plate For These Switchboards].LOOP POINTS MUST BE OF SAME SIZED WIRES. Phase wire must be Red colour, Nutral Wire must be Black color & Green Wire for Earthing. Color code must be maintained. Tagging from PDB MCB and Switch board must be done	9	nos	



SITC of CAT 6 UTP pvc insulated copper conductor data cable of D - <					
front modular cover plate, flush box metallic or PVC for trucking system etc. complete with terminations etc complete.with Providing, installing, testing, commissioning of CAT 6 UTP pvc insulated copper conductor data cable of D-link make with 20/20 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. with ferrule numbering at both ends of each of piece of cable etc. complete as per the requirement from data rack to I/O points below tables. etc. (One for LCD & Two for ATM & one for IP phone in BM cabin). Dual jack plate will not be allowed. Cross Ferruling need to be provided for each point. on Data point tagging must be done). 21 nos 9 Removal & Reinstallation, testing & commissioning of existing metal rack for computer clamping switch etc complete with Tray Mounting Fan + power supply board. Bank's hardware - port switch / patch panel must be installed by ele. Contractor in this rack. 1 nos 11 SITC of 24 port patch panel for computers mounting in metal rack. (make : D Link/Digi Link). 1 nos 13 Supply & fixing the Patch cord 1 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank / Authority. 1 nos 14 Supply & fixing the Patch cord 2 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank / 14 1 nos	7	- Link with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. with ferrule numbering at both ends of each piece of cable	60	mtr	
front modular cover plate, flush box metallic or PVC for trucking system etc. complete with terminations etc complete.with Providing, installing, testing, commissioning of CAT 6 UTP pvc insulated copper conductor data cable of D-link make with 20/20 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. with ferrule numbering at both ends of each of piece of cable etc. complete as per the requirement from data rack to I/O points below tables. etc. (One for LCD & Two for ATM & one for IP phone in BM cabin). Dual jack plate will not be allowed. Cross Ferruling need to be provided for each point. on Data point tagging must be done).1nos9Removal & Reinstallation, testing & commissioning of existing 		CITC of $CAT \in DI 4\Gamma$ information order (I/O) of D line rates with			
9metal rack for computer clamping switch etc complete with Tray Mounting Fan + power supply board. Bank's hardware - port switch / patch panel must be installed by ele. Contractor in this rack.1nos1SirrC of 24 port patch panel for computers mounting in metal rack. (make : D Link / Digi Link).1nos11SirrC of 24 port patch panel for computers mounting in metal rack. (make : D Link / Digi Link).1nos13Supply & fixing the Patch cord 1 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank Authority.21nos14Supply & fixing the Patch cord 2 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank authority.14nos	8	front modular cover plate, flush box metallic or PVC for trucking system etc. complete with terminations etc complete.with Providing, installing, testing, commissioning of CAT 6 UTP pvc insulated copper conductor data cable of D-link make with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. with ferrule numbering at both ends of each of piece of cable etc. complete as per the requirement from data rack to I/O points below tables. etc. (One for LCD & Two for ATM & one for IP phone in BM cabin). Dual jack plate will not be allowed. Cross Ferruling need to be	21	nos	
11 (make : D Link / Digi Link). 1 nos 13 Supply & fixing the Patch cord 1 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank 21 nos 13 Supply & fixing the Patch cord 2 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank 21 nos 14 Supply & fixing the first ask to BM / Consultant / Architect / Bank 14 nos	9	metal rack for computer clamping switch etc complete with Tray Mounting Fan + power supply board. Bank's hardware - port switch / patch panel must be installed by ele. Contractor in this	1	nos	
11 (make : D Link / Digi Link). 1 nos 1 nos 13 Supply & fixing the Patch cord 1 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank 21 nos 1 13 Supply & fixing the Patch cord 2 mtr. Long (factory built)When supplying , then first ask to BM / Consultant / Architect / Bank 21 nos 1 14 Supplying , then first ask to BM / Consultant / Architect / Bank 14 nos 14					
13 supplying , then first ask to BM / Consultant / Architect / Bank 21 nos 13 Authority. 21 nos 14 Supply & fixing the Patch cord 2 mtr. Long (factory built)When 14 nos	11		1	nos	
13 supplying , then first ask to BM / Consultant / Architect / Bank 21 nos 13 Authority. 21 nos 14 Supply & fixing the Patch cord 2 mtr. Long (factory built)When 14 nos					
14 supplying , then first ask to BM / Consultant / Architect / Bank 14 nos	13	supplying , then first ask to BM / Consultant / Architect / Bank	21	nos	
14 supplying , then first ask to BM / Consultant / Architect / Bank 14 nos		Country & fining the Datch and 2 metry I ame (for the state 1, 111) 147			
	14	supplying , then first ask to BM / Consultant / Architect / Bank	14	nos	

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15	SITC of telephone point with Telephone socket outlets of RJ 11 of aapproved make with company made concealed boxes in walls / furniture's etc. complete with Providing, installing, testing, commissioning of 2 pair of 0.51 cross section pvc insulated copper conductor telephone wire of ITI approved with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. complete.from krone box to tele. RJ - 11 sockets below tables. etc for Intercom / fax / direct Tele. facility. Cross Ferruling need to be provided for each point. on Telephone point tagging must be done.	10	nos	
17 (A)	SITC of 20 pair krone telephone tag block duly enclosed in sheet metal powder coated box with locking arrangement complete with necessary terminations.	1	nos	
D	DISTRIBUTION BOARD AND PANELS :			
18	SITC of metallic double door type distribution board with all necessary connection complete to be installed concealed in wall / surface mount complete to the satisfaction of the Engineer in charge. The DB should be of same make as MCB make .			
18.1	Removal & reinstallatio n, testing & commissioning of existing DB with below configuration : 4 - WAY TPN DB : (LDB) (OLD) - All MCB should be 'B' type compulsory marking of all sbs in all mcbs.	1	nos	
	incoming : 40 A FP MCB - 1 NO.			
	outgoing : 25 A DP RCCB, 100 mA - 3 NO.			
	outgoing : 6 to 20 A SP MCB (6 nos).			
18.2	Removal & reinstallation , testing & commissioning of existing PDB with below configuration : (PDB) (OLD). All MCB should be ' C ' type compulsory marking of all sbs in all mcbs.	1	nos	
	incoming : 63 A FP MCB - 1 NO (OLD).			
	outgoing : 40 A DP RCCB, 100 mA - 3 NO. (NEW).			
	outgoing : 10 to 20 A SP MCB (3 nos) for raw power points. (OLD).			
	outgoing : 10 to 20 A SP MCB (3 nos) for 6/16 A power point . (OLD).			
18.3	Removal & reinstallation , testing & commissioning of existing PDB with below configuration : (ACDB) (OLD). All MCB should be 'C' type compulsory marking of all sbs in all mcbs.	1	nos	
	incoming : 63 A FP MCB - 1 NO.			



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	outgoing : 20 A / 25 A DP MCB (6 nos) for HI- WALL SPLIT AC				
	points.				
18.4	16 - WAY SPN DB : (ATMDB). All MCB should be ' C ' type.	1	nos		
	incoming : 40 A FP MCB - 1 NO.				
	outgoing : 20 A / 25 A DP MCB (1 nos) for HI- WALL SPLIT AC				
	points.				
	outgoing : 10 to 20 A DP MCB (1 nos) sign baord.				
	outgoing : Timer of L & T make Cat. No. 67DDTO digicom Timer / Theben make Cat no. SUL 180 a - T180 0 001 ANALOG Timer.				
	outgoing : 10 to 20 A SP MCB (2 nos).				
18.5	Removal & reinstallation , testing & commissioning of existing with below configuration : 8 WAY SPN DB : (UPS DB) OUTPUT - branch (OLD) All MCBs must be C Type Characteristic compulsory marking of all sbs in all mcbs.	1	nos		
	incoming : 40 A DP 100 mA RCCB, 100 mA. (OLD).				
	outgoing : 10 to 20 A SP MCB (6 nos). (OLD).				
18.6	4 WAY SPN DB . (For essential ups points - UPS O/P DB .) - branch in UPS ROOM.	1	nos		
	outgoing : 16 A. DP MCB - 1 NO FOR UPS OUTPUT.				
	outgoing : 10 A / 20 A. SP MCB - 2 NO FOR essential ups points - DATA RACK / FIRE PANEL / CCTV NVR PTS.				
18.7	4 WAY SPN DB . (For ATM ups points - UPS O/P DB - in ATM AREA.).	1	nos		
	outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.				
	outgoing : 10 A / 20 A. SP MCB - 2 Nos.				
18.8	4 WAY SPN DB . (For UPS O/P DB IN UPS ROOM).	1	nos		
10.0	outgoing : 40 A. DP MCB - 1 NO FOR UPS OUTPUT.	-	100		
	outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.				
18.9	DP METAL ENCLOSURE DB . (For ATM UPS DB IN UPS ROOM).	1	nos		
	outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.				
18.10	UPS INPUT - 12 WAY SPN DB (For all computers) All MCBs must be C Type Characteristic.	1	nos		
	incoming : 40 A FP MCB - 1 NO FOR 3 - phase UPS.(big).				
	outgoing : 40 A. DP MCB - 1 NO FOR INVERTER OUTPUT.				



	outgoing : 25 A DP MCB 1 NO EOP 1 phase LIPS INPLIT for E		l		1 1
	outgoing : 25 A DP MCB - 1 NO FOR 1 - phase UPS INPUT for E Lobby.				
	outgoing : 10 A SP MCB - 1 NO FOR UPS ROOM LIGHTING.				
20	SITC of 40 A / 40 A - TPN / TPN ACCL complete for inverter supply to LDB - check SLD. Cat No. DHACOTT4040. GEN. Rating is 40 A.	1	nos		
21	Main panel - Cleaning , testing, tightening of all mcbs & terminations of all cables, etc proepr working condition of main panel compulsory marking of mcbs in main panel.	1	nos		
22	SITC of Main panels as per drawing and specifications. Panel should be dust and vermin proof. Panel shall be fabricated from 14/ 16 SWG CRCA sheet metal duly powder coated of approved paints. Panel should be as per the sepecifications of ERDA/CPRI. fabrication, Switch gear installation. Internal wiring and Test Certificate from Manufacturer to be submitted All MCBs must be C Type Characteristic. Panel Drawing Need to be approved by Electrical Consultanat / Bank's Engineer before starting work. READ SLD CARFULLY.				
	MAIN PANEL : ESSENTIAL POWER IN UPS ROOM.	1	nos		
	Incoming feeder : 80 A C&S Make CSE1N80ETM4P- 80A (1 No.). The MCCB should have inbuilt Earth Fault & Nutral Overload Protection with Power Supply & Display Module for Metering & Fault Recording. * 80 A, FP Change over switch (1 No.) ESSENTIAL POWER. * 100 AMP. 500 Volts, 3 phase 50 Hz FP Alu. bus bars of suitable length -Current ratio shall be 1 sq mm = 1.2 A.				
	* Digital AVF Meter with control fuses. C.T. shall be of 15VA class 1 type and shall be resin cast type.				
	* Phase indicator lamps phase wise.				
	* Outgoing feeder:				
	* Timer of L & T make Cat. No. 67DDTO digicom Timer with 16A. 4P contactor / Theben make Cat no. SUL 180 a - T180 0 001 ANALOG Timer with L & T make contactor MNX 18 (operating coil voltage 230V, 50 Hz). (24 hrs) 1 No for signage light.				
	* 25 A DP MCB (1 no - Sign board for branch).				
	* 40 A FP MCB (1 NO - UPSDB).				
	* 40 A FP MCB (1 NO - ATMDB).				
	* 40 A FP MCB (1 NO - SPARE DB).				
Ε	EARTHING SYSTEM:				



I		1	I	i	i i
23	SITC of Earthing Pit with all necessary material and making masonry kundi, watering arrangment etc complete as per ISI 3043- 1987 (FOLLOWING ITEMS MAY OPERATE). Resistivity as per IEC / IS. (3 years Manufacturer Warranty. Earthing Certificate Need to Attached). (At the Time of buried of earthing Photograph must be taken Without Photographic Proof Earthing Will be Rejected. Earthing Rod Photo Must be attached with Bill.). Earthing need to measure at Site and it should be less than 5 Ohm. If found more than 5 ohm than will be rejected. Earthing Pit Must be Provided for both Cu as well as GI earthpit.				
23.1	ECO SAFE environment friendly electrical grounding system with T-193- Copper electrode used upto 11 KV, having 50mm dia. of outer pipe and 25 mm dia. of inner pipe and length of 3mtrs with 50kg Back Fill Compound as per UL 476, of Powerfill Eco friendly electrical grounding backfill compound and clamp (UPS) - Chemical GI Earthing) ERDA & NSIC approved, E link or ETP MAKE or ASHLOK MAKE. Any other make will not be consider Cu. (1 for UPS & 1 for DB - MAIN PANEL.).	2	nos		
24	SITC and jointing of following wire / strip / earth cable on walls, ceiling etc. With necessary non rusting clamps, washers, nuts and bolts etc complete.				
24.1	SITC of 16.0 sq. mm. Cu. Flexible wire with 20 / 25 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete From Cu. earthing pit to Main Panel + From Cu. Earthpit to UPS I / P DB.	40	Rmt		
24.3	SITC of 4.0 sq. mm. Cu. Flexible wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete for all DBS, AC outdoor units, etc.	80	Rmt		
F	CABLES & CABLE TERMINATIONS:				
25	Supply, Laying, installation, testing and commissionig of following sizes of PVC insulated PVC sheathed copper / aluminum conductor armoured cable to be laying in existing cable trench or to be laid in existing pipes of with necessary clamps, spacers with cleating on wall ceilling etc. complete to the satisfaction of EIC. All types of cable excavation works should be in contractor's scope.(LENTH TO BE VERIFY AT SITE) with end termination of following PVC insulated armoured cables incluming supply and fixing of brass single compression type cable glands and crimping type aluminum / copper lugs suitable for terminations of armoured cables of following overall diameters, incl.				
25.1	3 C x 2.5 sq. mm Cu . Conductor YWY cable. (for Signboard).	35	mtr		
25.4	4 C x 10.0 sq. mm Cu. Conductor YWY cable. (Main Panel input power to ESSENTIAL PANEL).	35	mtr		
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25.5	4 C x 16.0 sq mm Alu. Conductor AYFY cable. (Essential Panel to ATM DB.).	35	mtr		
25.10	3 C X 6.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (UPS O/P DB in ups room to UPS O/P DB - branch at entrance area.) for branch.	35	mtr		
25.10	3 C X 6.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (INVERTER to MCB CHANGEOVER & UPS I/P DB to INVERTER - for INVERTER .) for branch.	35	mtr		
25.11	3 C X 4.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (UPS unit to UPS DP MCB - e lobby in ups room + UPS DP MCB - e lobby in ups room to UPS o/p db in ATM area + ups o/p db in ups room to essential ups o/p db in ups room.).	41	mtr		
G	MISCELLANEOUS ITEMS :				
0					
28.1	SITC of 2.5 sq. mm. 3 core flexible cable of approved make (3 mtr. Length) with heavy duty industrial pvc flexible pipe & 15 amp. 3 pin top of approved make for the supply of LOCKER ROOM, CASH ROOM.	3	nos		
29	SITC of CABLE TV cable line with proper fixing and connecting with modular Co-Axial TV Socket 1 run.	35	mtr		
30.1	SITC of 24 Hr, 7 days A/C timer with 2 nos of TP power contactor of M.D.S, L & T , SEIMENS, THEBEN (indoasian) Make. All enclosed in sheet steel powder coated enclosure of 200 X 200 mm complete with all necessary termination for e lobby AC supply. <u>Here Ready made Cyclic Timer Will not be permited to be</u> installed in E lobby near main DB/server room.	2	nos		
30.2	SITC of 24 Hr, 7 days A/C timer with 2 nos of DP power contactor of M.D.S, L & T , SEIMENS, THEBEN (indoasian) Make. All enclosed in sheet steel powder coated enclosure of 200 X 200 mm complete with all necessary termination for UPS room ex fan supply. <u>Here Ready made Cyclic Timer Will not be permited to</u> <u>be installed in ups room.</u>	1	nos		
32	Laisioning work (addition Load) WITH Electric suppply Co. in branch & Apporoval and Neccessary cirtificate. Contrctor must submit latest light bill + load sheet (duly signed) with final bill.	1	job		



				I	I
33	Removal of old wiring in area which will be ppropsed to be redesigned & providing necessary plug points (3 boards - each including 25 DP RCCB, 30 mA + 3 nos switches & 3 nos plugs, 16 a switch & 16 a plug) & light points for tube lights (including necessry wiring) at various locations as required by various contractors for execution of various works / to run equipments such as drill / cutter etc. during the entire execution process. The accessaories used for this purpose shall be of temp. nature (anchor piano or eq.) & the contractor has to take back the same on completion of the project. The supply for this shall be taken from the temporary connection provided at / from nearby general meter under co.ordintion with the LANDLORD/ branch head & also providing temporary power supply (with help of RCCB) for computers and data connection for computers with wiring, switchboard, Comp. I/O Points,etc. for smoothly running of the branch with removing & reshifting of the computers , printers, etc. bank hardware accessories.	1	job		
	TOTAL - PART A :::				
	PART - B :::: BUYBACK				
1	BUY BACK : FROM premises - Entire existing electrification, telephone wirings, LAN wirings with conduits shall be removed and shall be purchased by the contractor including switches and accessories except all lighting fixtures, ceiling fans, exhaust fan , all Cables, all DBs , main panel, data rack, patch panel, etc. (Contractor shall last visit site before quoting and the submit the list of material with quantities which are buying and the quoted rate shall be lump sump basis)	1	Job		
	GRAND TOTAL AFTER BUYBACK ::::: PART A - PART B (
	BUYBACK) ::::				







