BID IDENTIFICATION NO-E.E.(AGRIL.), NAYAGADA-02/2026-27

GOVERNMENT OF ODISHA

AGRICULTURE & FARMERS' EMPOWERMENT DEPARTMENT

BID DOCUMENTS

DETAILED TENDER CALL NOTICE

Name of the works: -

Sl.No	Name of the work	EstimatedCostputintender(inRs.)
1	Construction of Conference Hall on first floor of ADO Office Tangi	42,71,105.00
2	Strengthening and Furnishing of office of SE (Agril), Central Zone, Bhubaneswar	7,00,801.00

OFFICEOFTHEEXECUTIVEENGINEER(AGRIL.),AGRILENGG.DIVISION,NAYAGADA
E-mailID–eeagril.nayargarh@gmail.com

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OFFICEOFTHEEXECUTIVEENGINEER(AGRIL.),AGRILENGG.DIVISION,NAYAGADA
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INVITATIONSFORBIDSTHROUGHe-Procurement

BidIdentificationNo/e-ProcurementNoticeNo. 924 /2026// Agril.Date– **15/10/2026**
E.E.(AGRIL.), NAYAGADA-02/2026-27

The Executive Engineer (Agril.), Nayagada Division, Nayagada on behalf of Governor of Odisha invites **Percentage** Rate Bids in **Single cover** system for the works as detailed in table below.

Sl. No.	Nameofthework	Approximate Estimated costput to Tender(ExcludingG.S.T) (Rs.)	Cost ofBid Documents (inRs.)	EMD (inRs.)	Class ofContractor	Period ofCompletion
1.	2.	3.	4.	5.	6.	7.
1.	Construction of Conference Hall on first floor of ADO Office Tangi	42,71,105.00	**6000**	42800	**B & C**	**04(Four calendar month)**
2.	Strengthening and Furnishing of office of SE (Agril), Central Zone, Bhubaneswar	7,00,801.00	**4000**	7000	**C**	**02(Two calendar month)**

The bidders have to participate in ONLINE bidding only. The web-site for "ONLINE BIDDING" is**http://tendersodisha.gov.in**. Bid documents will be available in above website from Dt. **21/10/2026** at **11:00AM** to Dt. **31/10/2026** up to **5:00 P.M** for "ONLINE BIDDING". **Date of original bid documents submissionfrom Dt. 21/10/2026** at **12:00 PM** to Dt. **02/11/2026** up to **5:00 P.M.** Bids shall be opened at 11:00 AM onwards on Dt. **03/11/2026.**

The biddermustpossess matching class compatible Digital Signature Certificate (DSC).Further details andothertermsandconditionscanbeseenfromDTCNinthee-Procurementwebsite**www.tendersodisha.gov.in.**

N.B:Subsequentcorrigendum/addendum ifrequiredshallbeavailableinthewebsiteasindicatedabove

Executive Engineer (Agril.)
Nayagada Division, Nayagada

MemoNo. **925** /2026//Agril. Dated **15/10/2026**

Copy submitted to the Deputy Secretary to Government, I & P.R Department, Odisha, Bhubaneswarwith a request to get it published in leading Two Odia Daily and One National English Daily News Paper on or before **Dt. 05/05/2026**. One complimentary copy of published NewsPaper may pleasebesenttothisofficefornecessary record in Tender File. The CD containing the above Tender Call Notice (T.C.N.) is enclosed herewithforthepurpose.

Encl:i)CopyofTenderCallNotice –1No.
ii)CD– 1No

Executive Engineer (Agril.)
Nayagada Division, Nayagada

MemoNo. **926** /2026//Agril. Dated **15/10/2026**

Copywiththe'e'ProcurementNoticesubmittedtotheDirectorofAgriculture&FoodProduction,Odisha, Bhubaneswarforfavourofkindinformation&necessaryaction.

Executive Engineer (Agril.)
Nayagada Division, Nayagada

MemoNo. **927** /2026//Agril. Dated **15/10/2026**

Copywiththe'e'ProcurementNoticesubmittedtotheChiefEngineer(Agril.),Odisha,Bhubaneswarforfavourofkindinformation&necessaryaction.

Executive Engineer (Agril.)
Nayagada Division, Nayagada

MemoNo. **928** /2026//Agril. Dated **15/10/2026**

CopysubmittedtotheSuperintendingEngineer(Agril.), Central Zone,Bhubaneswar/ Chief DistrictAgricultureOfficer,Nayagadaforinformation&necessaryaction.

Executive Engineer (Agril.)
Nayagada Division, Nayagada

MemoNo. **929** /2026//Agril. Dated **15/10/2026**

CopysubmittedtotheAEE (Agril), Bhubaneswar/Khurdha / AAE, Bhubaneswar/Tangi Nayagadaforinformation&necessaryaction.

Executive Engineer (Agril.)
Nayagada Division, Nayagada

OFFICEOFTHEEXECUTIVEENGINEER(AGRIL.),NAYAGADADIVISION,NAYAGADA
E-mailID–eeagril.nayargarh@gmail.com

Govt.ofOdisha"e"procurementNotice

BidIdentificationNo.:-E.E.(AGRIL),Nayagada-02/2026-27

The Executive Engineer (Agril.), Nayagada Division, Nayagada, Odisha on behalf of Governor of Odisha, invitespercentageratebidsinsinglecoversysteminONLINE MODEonly,forfollowing2Nos.work"asdetailedbelow.

1. Nameofthework:-

Sl. No.	Nameofthework	Approximate Estimated costput to Tender(ExcludingG.S.T) (Rs.)	Cost ofBid Documents (inRs.)	EMD (in Rs.)	Class ofContractor	Period ofCompletion
1.	**2.**	**3.**	**4.**	**5.**	**6.**	**7.**
1.	Construction of Conference Hall on first floor of ADO Office Tangi	42,71,105.00	**6000**	42800	**B & C**	**04(Four calendar month)**
2.	Strengthening and Furnishing of office of SE (Agril), Central Zone, Bhubaneswar	7,00,801.00	**4000**	7000	**C**	**02(Two calendar month)**

2. EstimatedCost:-**MentionedinColumn-03**

3. BidCost:-**Mentionedin Column–04**

4. EMDCost:-**MentionedinColumn-05**

5. Periodofcompletion: Mentioned**inColumn–07**

6. No.ofwork(Tender):**2 nos.**

7. ClassofContractor:**MentionedinColumn-06**

Date&Timeofavailabilityofbiddocumentin theportal: **21/10/2026** at **11:00AM** to Dt.**31/10/2026** up to **5:00 P.M**

9. Lastdate/Timeforreceiptofbidsintheportal:.**31/10/2026** up to **5:00 P.M**

10. Dateofsubmissionofdocuments: **21/10/2026 at 12:00 PM to Dt. 02/11/2026 up to 5:00 P.M(workingdays) only.**

11. Date &timeofopeningofonlinebids: **03/11/2026at11.00AM & onwards**

12. NameandaddressoftheofficerinvitingBid:**ExecutiveEngineer(Agril.),Nayagada Division,Nayagada**
Furtherdetailscanbeseenfromthee-procurementportal**http://tendersodisha.gov.in**

A. All the volumes / documents shall be uploaded in the portal by the Procurement OfficerAdministratorand published byProcurement Officer Publisher (OfficerInviting tender)

B. TheTenderdocumentspublishedbytheTenderinvitingOfficer(ProcurementOfficerPublisher)inthewebsite**"http://tendersodisha.gov.in"**willappearintheLatest.

C. The Bidders have to participate in ONLINE bidding only. Further details can be seen from the website**"http://tendersodisha.gov.in"**. Any addendum / corrigendum / cancellation of tender can also be seen inthesaidwebsite.

Executive Engineer (Agril.)
NayagadaDivision,Nayagada

CHECKLISTTOBEFILLEDUPBYTHEBIDDER

Nameofthework:_____

Sl. No	**Particulars**	**Reference toClauseno**	**Whetherfurnished**		**Reference toPage no**
			Yes	**No**	
01.	Costoftenderpaperasperlistattachedagainsteach work	D.T.C.N ClauseNo.03			
02.	E.M.D.asperlistattachedagainsteachwork	D.T.C.N. ClauseNo. 05			
03.	CopyofvalidRegistrationCertificate	D.T.C.N ClauseNo.06			
04.	CopyofvalidGSTclearancecertificate	D.T.C.N ClauseNo.06			
05.	CopyofPANCard	D.T.C.N ClauseNo.06			
06.	NoRelationship CertificateinSchedule–A	D.T.C.N ClauseNo.11			
07. (A)	Informationregardingcurrentlitigation,debarring/expelling of the tender or abandonment of the workbythetenderer(Schedule-D)	D.T.C.N ClauseNo.09			
(B)	Affidavit(Schedule-E)	D.T.C.N ClauseNo.09			
(C)	Work experience of similar nature of worksin the following year 2022-23,2023-24,2024-25				
(D)	**Average annual turn over in the following yr 2023-24,2024-25, 2025-26**				
(D)	BiddersContactInformation				

N.B:-EligibilityCriteriaatClause-86 ofDTCNmaybereferred.

(SignatureofthebidderwithfullAddressfor correspondencewithmailandMobileNo)

OFFICEOFTHEEXECUTIVEENGINEER(AGRIL.),NAYAGADADIVISION,NAYAGADA

CONTRACTDATA

A. GENERALINFORMATIONS

Sl. No.	Particulars	Details
1	BidIdentificationNo.	**E.E.(AGRIL.), NAYAGADA Division–02/2026-27**
2	NameoftheWork	(i) Construction of Conference Hall on first floor of ADO Office Tangi (ii) Strengthening and Furnishing of office of SE (Agril), Central Zone, Bhubaneswar
3	Officerinvitingtender	Executive Engineer(Agril.),Nayagada Division,Nayagada
4	AcceptingAuthority	Executive Engineer(Agril.),Nayagada Division,Nayagada
5	EstimatedCost	Mentionedagainstworkofthelist

B. BIDINFORMATION

6	Intendedcompletionperiod/Time periodassignedforCompletionasperclause7ofDTCN		**MentionedincolumnNo.-6**
7	LastDate&timeofsubmissionofonlineBid(ClauseNo.1ofDTCN.)		**Time:5:00PM** **Dt.31/10/2026**
8	**Dateoforiginalbiddocumentssubmission**		**Time: 11.00 AMto5.00PM(exceptholidays)** **Dt 21/10/2026 at 12:00 PM to Dt. 31/10/2026 up to 5:00 P.M (working days) only.**
9	CostofBidDocument(ClauseNo.3ofDTCN.)		
	i)	Bankdraftamount	**Asperlistattachedagainsteachwork**
	ii)	infavourof	Executive Engineer (Agril.),Nayagada Division, Nayagada
	iii)	payableat	Nayagada
10	Bidvalidityperiod(ClauseNo.8ofDTCN.)		90days
11	Minimumperiodofcontract/agreement		As perDTCN
12	CurrencyofContract		IndianRupees
13	LanguageofContract		English

Executive Engineer (Agril.)
Nayagada Division, Nayagada

GOVERNMENT OF ODISHA

WORKS DEPARTMENT

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OFFICE MEMORANDUM

No. 07764600022025 632 /W., Bhubaneswar Dt. 9.1.26

Sub- Clarification on Works Department Office Memorandum No.173 dt 03.01.2026 regarding Amendment of Codal and Contractual Provisions.

The following clarifications are issued on Works Department Office Memorandum No. 173 dated . 03.01.2026

1. The phrase " .... ***to abolish the extant provisions of threshold negative bid caps (14.99%) introduced*** ....." in the first para of the Works Department OM No. 173 dated. 03.01.2026 may be read as " .... ***to abolish the extant provisions of threshold negative bid caps of 15 % introduced vide Works Department OM No. 12366/W dt. 08.11.2013 and amended vide Works Department OM No. 1437 dt, 31.01.2023 .....***"

2. If more than one bid is quoted (decimal up to two numbers will be taken for all practical purposes), either at the estimated cost put to tender or less than the estimated cost put to tender, the tender accepting Authority will finalize the tender through a transparent lottery system, where all the concerned bidders/their authorized representatives, the concerned SE/EE of the concerned Division and Divisional Accounts Officer (DAO) will remain present.

3. If the rate quoted by the SC and ST Category Contractors comes to the rate quoted by the L1 bidder(decimal up to two numbers will be taken for all practical purposes) after availing 10% price preference as per Para 2 of Works Department Resolution No. 27748 dated. 11.10.1977, the tender shall be finalized by the tender accepting authority through a transparent lottery system along with other categories of contractors.

4. As regards the bidding process in which the tender has been floated before the issue of Works Department Office Memorandum No.173 dt 03.01.2026, the bid shall be finalized as per the earlier provisions in Appendix-IX, Clause 36 of OPWD Code Volume-II.

5. This has been concurred in by the Finance Department in File No **FIN-WF1-MISC-0102-2025**

By order of the Governor

Principal Secretary to Government

Proceduretoparticipateinonlinebiddinge-procurement

1. **PARTICIPATING IN THE BID IN THE E-PROCUREMENT PORTAL:** The Contractor/Bidderintending to participate in the bid is required to register in the Portal with some information about thefirm/Contractor. This is a onetime activity for registering in Portal. During registration, the contractorhastoattachaDigitalSignatureCertificate(DSC)tohis/heruniqueuserID.TheDSCusedmustbeof appropriate class(Class II or Class III) issued from a registered Certifying Authority such as n-Code,Sify,TCS,and MTNLetc.
    - **a.** To logonto theportaltheContractor/Bidderisrequiredtotypehis/her*username*andpassword. *The* system *will again ask to* select the DSC and confirm it with the password ofDSC. For each login, a user's DSC will be validated against its date of validity and alsoagainst the Certificate Revocation List (CRL) of respective CAs stored in system database.The system checks the unique ID, password and DSC combination and authenticates the loginprocessforuseofportal.
    - **b.** ThetenderdocumentsuploadedbytheTenderInvitingOfficerinthewebsitewww.tendersodisha.gov.inwill appear in the section of "Upcoming Tender" before the duedate of tender sale. Once the due date has arrived, the tender will move to "Active Tender"Sectionof the*homepage*.Only asmallnotificationwillbepublishedin the newspaperspecifyingtheworkdetailsalongwith*mention*ofthespecificwebsite fordetails.Thepublication of the tender will be for specific period of time till the last date of submission ofbids as mentioned in the 'Invitation for Bid' after which the same will be removed from thelistofActivetenders. Anybiddercanviewordownloadthebiddocumentsfromthewebsite.
    - **c.** Contractor exempted from payment of EMDwill be ableto participate in the tender directlybyuploadingdocumentaryevidencestowardshiseligibilityforsuchexemption.
    - **d.** If the *software* application has the provision of payment of cost of tender document throughpayment gateways of *authorized* bankers by directly debiting the account of the bidders,bidderswill berequiredtoavailon-linepayment.

1.1. Furnishing scanned copy of such documents is mandatory along with the tender documents otherwisehis/herbidshallbedeclaredasnon-responsiveandthusliablefor rejection.

1.2. In the case of any failure, malfunction, or breakdown of the electronic system used during the e-procurementprocess,thetenderinvitingofficershallnotacceptany responsibilityforfailuresorbreakdownsother thaninthosesystemsstrictlywithintheir owncontrol.

1.3. Any third party/company/person under a service contract for operation of e-procurement system in theStateorhis/theirsubsidiariesortheirparentcompaniesshallbeineligibletoparticipateintheprocurementprocessesthatareundertakenthroughthee-procurementsystemirrespectiveofwhooperatesthesystem.

1.4. ForsubmissionofBidsthroughtheE-ProcurementPortal,thebiddershalluploadthescannedcopy/copies of document in prescribedformatwherever warranted in support of eligibility criteriaand qualification information.The online bidder shall have to produce the original documents in supportofthe scannedcopiesandstatementsuploadedintheportalbeforethespecifieddateasperDTCN.

1.5. Eachbiddershallsubmitonlyonebidforonepackage.Abidissaidtobecompleteifaccompaniedby cost of bid document and appropriate bid security. The system shall consider only the last bidsubmitted through theE-Procurementportal.

1.6. The Officer inviting the bid / Engineer-in-Charge will clarify queries on the Contract Data on requisitionby the intending Bidder. The bidder may ask question in the e-procurement portal using his DSC;providedthequestionsareraisedbeforethedatementionedinthehomepageundercriticaldates.

1.7. Thedetailsofdrawingsand documentspertainingtotheworksavailablewiththeofficerinvitingthe BidintheofficeoftheExecutiveEngineeras mentionedintheContractDatawillbeopen forinspectionby

the bidders. The bidder is required to down load all the documents for preparation of his bid. It is notnecessary for the part of the Bidder to up-load other Bid documents (after signing) while up-loading hisbid. He is required to up load documents related to his eligibility criteria and qualification informationand Bill of Quantities duly filled in. It is assumed that while participating in the bid, the bidder hasreferredallthedrawingsanddocuments.Seekinganyrevisionofrates orbackingoutofthebidclaimingfornothavingreferredtoanyoralldocumentsprovidedintheBidbytheOfficerInvitingtheBidwillbeconstruedaspleatodisruptthebidding processandinsuchcasesthebidsecurityshallbeforfeited.

1.8. Any addendum issued shall be part of the bidding documents and shall be notified in the websitewww.tendersodisha.gov.in/ noticeboardand throughpaperpublication.

1.8.1. All the volumes/documents shall be provided in the portal by the Officer inviting the bid. The biddershall carefully go through the document and prepare the required documents and up load the scanneddocumentsinPortableDocumentFormattotheportalinthedesignatedlocationsofTechnicalBid.Hewill filluptherates ofitems orpercentage inthe BOQdown loadedfortheworkindesignatedCellanduploadsthesameindesignatedlocationsofFinancialBid.Biddersaretos ubmit only the original BoQ uploaded by publisher after entering the relevant fields without anyalteration/deletion/modification. Multiple BoQsubmissionshalllead to cancellation of bid.Incaseofitemrate tender, biddersshallfillin theirrates otherthan Zerovalue inthe specifiedcells.Inthepercentageratetender,thebidderquotingZerovalueisvalid andwill betaken asScheduleofRates.SubmissionofdocumentshallbeeffectedbyusingDSCofappropriateclass.

2. BID SECURITY: TheBiddershallfurnish,aspartof hisBid, aBidsecurityfor the amountmentioned under NIT/Contract Data. The bidder shall scan all the written pages of the bid security and uploadthesametothesystemindesignatedplace.Theonlinebiddershalldeposittheoriginalcopyofthe'bidsecurity' within the specified period mentioned in the DTCN (after receipt date of bid but before openingdate & time of bid) with the "Officer inviting the Bid". The Officer inviting the bid shall not be responsiblefor any postal delay and/or non-receipt of the original copy of the bid security on or before specified dateandtime.Non-submissionofbidsecuritywithinthedesignatedperiodshalldebarthebidderfromparticipating in the on-line bidding system and his portal registration shall be cancelled. His name shall alsobeinformedtotheregisteringauthorityforcancellation ofhisregistration.

2.1 If the Bidder fails to submit the original documents for verification within the stipulated date, his bidsecurity shall be forfeited and his portal registration shall be cancelled andhis name shall also beinformedtotheregisteringauthorityforcancellationofhisregistration.

2.2. The Bidders having facility of exemption of Bid Security should submit the original registrationcertificate along with the Bid Cost during the time of submission of financial instruments. In suchcases, non-verification of original documents after opening of the Technical Bid will amount to loseone benefit of exemption during the financial year and the same will be entered in the originalregistration Certificate and his portal registration shall be cancelled. His name shall also be informedtotheregisteringauthorityfor cancellationofhisregistration.

3. FORMAT AND SIGNING OF BID: The bidder can download the tender of his choice and save it in hissystem and undertake the necessary preparatory work off-line and upload the completed tender at hisconvenience within the final date and time of submission.The bidder shall only submit single copy of therequired documents and Price Bid in the portal. In the Financial bid, the bidder cannot leave any figureblank. He has to only write the figures, the words will be self-generated. The Bidders are advised to up loadthecompleted Biddocumentwellaheadofthelastdate&timeofreceipttoavoidanylastmoment problemofpowerfailuresetc.

3.1. The Bidder shall go through the Bid carefully and list the documents those are asked for submission. Heshall prepare all documents including cost of Bid Document, Bid Security, Declaration form, price bidetc. andstoreinthesystem.

3.2. The bidder shall log on to the portal with his DSC and move to the desired tender for up loading thedocuments in appropriate place one by one simultaneously checking the documents. Once the Biddermakes sure that all the documents have been up-loaded in appropriate place, he clicks the submit buttontosubmitthebidtotheportal.

3.2.1. The bids once submitted cannot be retrieved or corrected. Tender cannot be pre-opened andcannotbesubmittedafterduedateandtime.Therefore,onlyaftersatisfyingthatallthedocumentshavebeenuploaded, theBidder shouldactivatesubmit button.

3.2.2. In the e-procurement process each processes are time stamped. The system can identify eachindividualwhohasenteredintotheportalforanybidandthe timeofenteringintotheportal.

3.2.3. The Bidder should ensure clarity of the document up loaded by him to the portal especially thescanned documents by taking out sample printing. Non-submission of legible documents mayrenderthebidnon-responsive.

4. SECURITYOFBIDSUBMISSION:

4.1. All bid data uploaded by the Bidder to the portal will be encrypted by the DSC of the opener(s). Thesystem shall require all the mandatory forms and fields filled up by the contractor during the process ofsubmission ofthebid/tender.

4.2. The Bid shall be received in encrypted format by the system which can only be decrypted / opened bytheauthorizedopenersonlyon orafter theduedateandtime.

5. DEADLINEFORSUBMISSIONOFTHEBIDS:

5.1. The online bidding will remain active till the last date and time of the bid submission. Once the date andtime (Server date and time) is over, the bidder will not be able to submit the bid. The date & time of bidsubmission shall remain unaltered even if the specified date for the submission of bids declared as aholidayfortheOfficerinvitingtheBid.

6. LATEBIDS:

6.1. The system shall reject submission of any bid through portal after closure of the receipt time. For allpurpose the server time displayed in the e-procurement portal shall be the time to be followed by thebidder andconcerned officers.

7. MODIFICATIONANDWITHDRAWALOFBIDS:

7.1. In the E-Procurement Portal, it is allowed to modify the bid any number of times before the final dateand time of submission. The bidder shall have to log on to the system and resubmit the documents asaskedforbythesystemincludingthepricebid.Indoingso,thebidsalreadysubmittedbythebidder willberemovedautomaticallyfromthesystemandthelatestbidonlywill beadmitted.Butthebiddershouldavoid modification of bid at the last moment to avoid system failure or malfunction of internet or trafficjamorpowerfailure.Ifthebidderfailstosubmithismodifiedbidswithinthedesignatedtime of receipt,thebidalreadyinthesystemshallbe takenfor evaluation.

7.2. In the E-Procurement Portal, withdrawal of bid is allowed. But in such case, he has to write a letter withappropriate reasons for his with drawl addressed to the Officer inviting the bid and up load the scanneddocument to portal in the respective bid before the closure date and timeof receipt of the bid. Thesystemshallnotallowanywithdrawalafterexpiryof the closuretimeof thebid.

8. OPENINGOFTHEBID:

8.1. Bid opening date is specified during tender creation or can be extended with corrigendum. This date isavailable in IFB, tender document as well as the home page of portal. Bid opening can be done by theauthorizeduserswhicharedefinedduringthetenderpublication/approvalstage.Thebidsareencryptedusing therepublic keys and can be decrypted only on or after the Bid Opening due date and time. The bidopeners private key will be required to open the bids and all the openers have to log on to the portalduringthattime.

8.1.1. The bidders who participated in the online bidding can witness opening of the bid from anysystem logging on to the portal with the DSC away from opening place. Contractors are notrequiredto bepresentduringthe bid openingat theopening locationiftheyso desire.

8.1.2. Each activity is date and time stamped with **user** details. For time stamping, server time is takenasthereference.

8.2. IntheeventofthespecifieddateofbidopeningbeingdeclaredaholidayfortheOfficerinvitingtheBid/Engineer-in-Charge,thebidswillbeopenedattheappointedtimeonthenext workingday.

8.3. Incasebidsareinvitedformorethanonepackage,theorderforopeningofthe“Bid”shallbethatinwhichtheyappear inthe“InvitationforBid”.

8.4. Duringbidopening,thecoverscontainingoriginalfinancialinstrumentstowardsCostofbidandBid

Security in the form specified in the DTCN, received after last date of receipt of bid and before openingofthebidsshallbe openedand declared.(incaseof2coversystem)

8.4.1. Combinedbidsecurityformorethanone workisnotacceptable.

8.5. The Bid openers; who have been pre-defined shall log on to the portal with their respective DSC. Unlessall the Officers who have been declared as Opening officers, log on the portal with their DSC the Tendercannotbeopened.

8.5.1. TheOpeningOfficerswill systematicallycheckthe scanneddemanddrafttowardscostofthebiddocument and the scanned document of Bid security with that of the original submitted. If foundinorder,they will continueopeningofallotherdocumentsinthesystem providedunderTechnical Bid.

8.5.2. Subject to confirmation of the bid security by the issuing institutions, the bids accompanied withappropriate bid cost and valid bid security will be taken up for evaluation with respect to thequalification Informationandotherinformationfurnished.

8.5.3. After receipt of confirmation of the bid security, the bidder may be askedin writing to clarify tothedocumentsintheTechnicalBid,ifnecessary,withrespecttoanydoubtsorillegibledocumentsrequiredforTechnicalEvaluation.

8.5.4. The bidders will respond in not more than 7 days of issue of the clarification letter, failing whichthebidofthebidderwillbeevaluated onits own merit.

8.5.5. Immediately, on receipt of these clarifications, the Evaluating Officers; predefined in the systemfor the bid, will finalize the list of responsive bidders. They will log on to the site with theirDSC and record their comments on the technical evaluation page in the system. The OfficerInviting the Bid if also the accepting authority, shall log on to the system with his digitalsignature and check the technical evaluation. He can either accept or pass on to the evaluatingofficersforre-evaluation.UponacceptanceoftechnicalevaluationbytheAcceptingauthorityinthe system, the system shall automatically generate letter to all the responsive bidders and thesystem shall forward the letter to all the responsive bidder that their technical bid has beenevaluated responsive with respect to the data/information furnished by him and the letter shallalso intimate him the date & time of opening of financial bid. The system shall also inform thenon-responsivebiddersintheire-mailIDthattheirbidhasbeenfoundnon-responsive.

8.6. TheTechnicalevaluationofallthebidswill betakenupaspertheinformationfurnishedbytheBidders.Butevaluationofthebiddoesnotexoneratethebidders fromcheckingtheiroriginaldocumentsandifata later date the bidder is found to have misled the evaluation through wrong information, action as perrelevantclauseofDTCN shallbetakenagainstthe bidder/contractor.

8.7. After **technical** evaluation of the bidders and selection of the qualified bidders, the financial bids of thetechnically qualified bidders shall be opened on the due date of opening. Members of the bid openingcommittee log on to the system in sequence and open the financial bids for the technically qualifiedbidders. The opening of financial bid by the opening officer using their DSC shall decrypt the financialbids. (for2coversystembid)

8.7.1. Openingofpricebidand evaluationoflowestbidderissubject to satisfactionofotherqualificationinformation.

8.7.2. The Financial Bid will be opened on the notified date & time in the presence of bidders ortheirauthorisedrepresentativewhowishtobepresent.

8.7.3. At the time of opening of "Financial Bid", the names of the bidders whose technical bids werefound responsive will be announced and the bids of only those bidders will be opened. Theremainingbidswillberejected.

8.7.4. The responsive bidders' name, the bid prices, the item wise rates the total amount of eachitem,anydiscountsandwithdrawals,andsuchotherdetailsastheofficerinvitingthetender

may consider appropriate, will be announced by him or his authorized representatives at thetimeofopening.

8.7.5. Rebate/discountofferifanyuploadedtothesystemshallbedeclaredandrecordedfirst.

8.7.6. The Technical Bid in Cover – I and financial Bid in cover – 2 is prescribed only for the worksestimated over 50.00 Lakhs. However, only one cover mentioning price bid in percentagerequiredforsubmissionin caseworkestimated belowRs.50.00 Lakhs.

Sd/-Er.Sudhansu Sekhar Das
Executive Engineer (Agril.)
Nayagada Division, Nayagada

OFFICEOFTHEEXECUTIVEENGINEER(AGRIL.),NAYAGADA DIVISION,NAYAGADA
DETAILED TENDERCALLNOTICE

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(Astheworkistimeboundandthereisnochanceofspilloveroffundstonextyear,ordinarilynotimeextension shall begranted other than exceptional condition like natural calamities (Flood, cyclone etc.)andofseriousnature.Thebiddersexpectingtimeextensiononordinarygroundsneednotapply.)

Sealed**percentagerate**bidsareinvitedon**ONLINEinsinglecoversystem**from**'B'&'C'Class**contractorsregistered with the State Governments as mentioned in the 'e' Procurement notice and contractors of equivalent Grade /class registered with Central Government / MES / Railways for execution of civil works on production of definite prooffromtheappropriateauthorityinprescribedformtobeeventuallydrawninP.W.D.**FORM"**

i. Construction of Conference Hall on first floor of ADO Office Tangi
ii. Strengthening and Furnishing of office of SE (Agril), Central Zone, Bhubaneswar

The Bid documents are available from official website of Government:**http://www.tendersodisha.gov.in** from **Dt 21/10/2026 at 11:00 AM to Dt. 31/10/2026 up to 5:00 P.M.Thelastdateandtimeofsubmissionof Bidisas percontractdata.**

1. The Technical Bid documents (Cover-I) will be opened by the assigned officer in the office of the ExecutiveEngineer (Agril.),Nayagada Division, Nayagadaat**11.00 AM & onwards**on **Dt.03/11//2026**in the presenceofthebiddersortheirauthorized representativeswhowishtoattend.

2. The cost of Bid documents in shape of demand draft issued from any nationalized scheduled bank may beprepared in the name of the **Executive Engineer(Agril.), NayagadaDivision,NayagadaandpayableatNayagada**as mentioned in the **Contract Data** as mentioned in the 'e' Procurement notice towards cost ofbid. The Bid cost shall be deposited in shape of Bank Draft prepared on or before the last date of receipt alongwiththeBid.

3. Thebidistobesubmittedinsinglecovers.(incaseofworkbelow50.0Lakhs)
   (i) Cover-IistocontainscannedEMD,papercostandbiddocument,scannedcopyofregistrationcertificate,PANcard,valid GSTclearancecertificate,undertaking/certificatesdulyfilled,affidavit,workexperiencecertificateandotherdo cuments requiredaspertherelevantclauses ofthisDTCN.
   (ii) Cover-IIis tocontainthepricebiddulyfilledin andsignedbythebidder.
   Incaseoftenderbelowrupees50.00Lakhssinglecoverbesubmitted.

4. ThebidistobesubmittedinSinglecovers.
   (i) The tender documents contain scanned EMD paid online, Cost and GST of bid document, scanned copy ofregistrationcertificate,PANcard,validGSTclearancecertificate,undertaking/certificatesdulyfilled,affidavit joint venture with Electrical license, PAN, GST of electrical contractor and documents requiredaspertherelevantclauses ofthisDTCN.
   (ii) The bidder must have
   (iii)The bid must be accompanied by Bid security of the amount as mentioned in Contract Data will be submittedonlinealongwithtender.NoadjustmentofE.M.D.fromonework, toanother willbeentertained.Biddersdesirousto hire machineries or equipments from outside the state or owned but deployed outside the state are required tofurnishadditional onepercent (1%)EMD/ Bid Security.

5. Thebidderhas tosubmit thescannedcopiesofcontractorregistrationcertificate,GSTclearanceandPANcardandthe same in hard copy (self-attested) at the time of submission of documents. The tender accepting authority **willverify** the original of all the scanned documents of the **successful lowest bidder only** within 7 days of opening oftender. In the eventuality of failure on the part of the lowest successful bidder to produce the original documents,he will be debarred in future from participating in tender for three years and will be black listed by the competentauthority. In such a situation, successful L-2 bidder will be required to produce hisoriginal documents forconsiderationof histender at thenegotiated rate equal toL-1 bidder.**Furnishingscannedcopyofsuchdocuments along with the Technical Bid is mandatory otherwise his/ her bid shall be declared as non-responsiveandthusliable forrejection**.

6. The work is to be completed in all respects within the **time period** as specified in the **Contract Data**. Bidderswhosebid is acceptedmust submit aworkprogramatthetimeofexecutionofAgreement.

7. All **bids** received will remain **valid** for a period as specified in the **Contract Data**after the deadline date forsubmissionofbids andvalidityofbids canalsobeextendedifagreedtobythebidderandthe Department.

8. An applicant or any of its constituent partners of whose contract for any work has been rescinded or who hasabandoned any work in the last five years, prior to the date of the bid, shall be debarred from qualification. **Thebidder is to furnish scanned copy an affidavit at the time of submission of bid about the authentication ofbiddocuments.Anaffidavit(inoriginal)tothiseffectistobefurnishedinSchedule-E.Nonfurnishingofthescannedcopy ofinformationinSchedule–DandrequiredaffidavitinSchedule –E,thebid documentwillbesummarilyrejected.**

9. **The Civil contractor in order to take part in the turn-key tender like in the instant case should enter into a joint ventureagreement with the eligible registered P.H. and Electrical contractors who will be the associates in the joint venture andthe agreement in original for the work after due registration under the appropriate legal authority (Sub-Registrar) mustbe submitted along with other requisites in the bid document as mentioned in clause-4 above. However, the scanned copyof this Joint Venture Agreement (Registered) must be submitted on online along with other documents. This joint venturedocument will form a part of the agreement. If the Civil contractor possesses registration forP.H.and Electrical worksunder the same name and style,then this above concept of joint venture may not be applicable to him. Also, the tendererhaving registration for civil works may not co-opt any associate in the joint venture for P.H.works. However, it is bindingon his part to enter into joint Venture agreement for the E.I. component of the work.It may be specifically not in clearterms that the joint venture should be done with the other associates as stated above for the particular work as mentionedin this DTCN. No generalized or common agreement document will be entertained which will mean works other than thecomposite work as in DTCN.Such generalized joint venture will render the bid for rejection. The civil contractor who hasput the tender or his duly authorized representative only will be responsible to the Engineer-in-Charge for all contractualobligations for execution of work for Civil, P.H. and Electrical items of work.He alone and not the E.I. associate in thejoint venture will sign the agreement with the engineer in charge of the work. A Notary Affidavit in such cases is alsoconsidered in this regards.**

10. **NoRelationcertificate.**Thebidderhastofurnishthenorelationcertificateinschedule-A. Thecontractorshallfurnishacertificatealongwiththetendertotheeffectthatheisnotrelatedtoanyofficerinthe rank of an AssistantEngineer &above in the state Dept. or Assistant/Under Secretary &above in theAdministration Department. If the fact subsequently proved to be false, the contract is liable to be rescinded. Theearnest money & the total security will be forfeited & he shall be liable to make good the loss or damages resultingfor such cancellations. **The proforma for no relationship certificate is contained in a separate sheet videSchedule-A.**

11. (i)**EachbidderistosubmitalongwithbidanoteregardinghisexperienceonconstructionofsimilarWorks.**

a) Nameofthe **work**:-
b) EstimatedCost:-
c) TotalQty:-
d) MajorItemof works:-
e) Quantityofitems i)AsperAgreement:-
ii)Asperexecution: -
f) DateofCommencement:-
g) StipulateddateofCompletion:-
h) Actualdateofcompletion:-
i) Otherdetailsifany:-

ii)**Theprospectiveapplicantinitsnameshouldfurnishlistofsimilarnatureofworksatisfactorilycompletedinlast Three(3)FinancialYearinSchedule-C1andlistofworksinprogressinSchedule-C2dulycountersignedby theExecutiveEngineer– in-Charge.**

12. If an individual makes the application, the individual should sign above his full type written name and currentaddress.
13. If the application is made by proprietary firm, it shall be signed(with DSC) by the proprietor & furnish full typewrittennameandthefullnameofhisfirmwithitscurrent addressinaforwardingletter.
15. If the application is made by a firm in partnership, it shall be signed (with DSC) by a partner holding power ofattorney for the firm in which case a certified copy of the power of attorney shall accompany the application. Acertified copy of the partnership deed and current address of all partners of the firm shall also accompany theapplication.
16. If the application is made by a limited company or a corporation, it shall be signed (with DSC) by a dulyauthorizedpersonholdingpowerofattorneyforsigningtheapplicationinwhichcaseacertifiedcopyofthepowerof attorney shall accompany the application. Such limited company or corporation will be required to furnishsatisfactoryevidenceofitsexistencealongwiththetechnicalbid.
17. Thetendershouldbestrictlyinaccordancewiththeprovisionsasmentionedinthe tenderschedule. Anychange inthewordingswillnotbeaccepted.
18. No bidder will be permitted to furnish their bid in their own manuscript papers. All information should besubmittedonlineinEnglish.
19. Submission of more than one tender by a bidder for a particular work will liable for rejection of all such tenderpapers.
20. The bidder should not apply for more than two number of works, if the bidder gets selected for more than twoworks thentheL2bidderwillbeconsideredforawardofworks exceptingtwonumberof works.
21. **Percentageratecontract(videWorksDepartmentletterno.8310dt.17.05.2006)Inca seofPercentageRatetender**:-
    (i) Thecontractorhastoquotepercentageexcessorlessovertheestimatedcostinthe PriceBidappendedtothetenderd ocument.
    (ii) The Contractors participated in the tender for more than one work may offer conditional rebate. Rebateoffer submitted in a separate letter duly scanned shall be opened, declared and recorded first. The rebateso offered shall be considered after opening of all packages called in the same Tender Notice. TheContractors who wish to tender for two or more works shall submit separate tender for each. Each

tendershallhavethe**BidIdentificationNo.,Name &Sl.No.ofthework(asperIFB)**towhichtheyrefer.

(iii) TheContractorwillquotepercentageexcess/lessuptoonedecimalpointonly.Ifhewritesthepercentageexcess/lessuptotwoormoredecimalpoints,thefirstdecimalpointshallonlybeconsideredwithoutroundingoff.

(iv) InthecontractP-1timeistheessence.Thecontractorisrequiredtomaintainacertainrateofprogressspecifiedinthecontract.

(v) Thequantitymentioned canbeincreasedorreducedto theextentof10%forindividualitemssubjecttoamaximum of 5%over the estimated cost. If it exceeds the limit stated above prior approval ofcompetent authorityismandatorybeforemakinganypayment.

(vi) Theperiod ofcompletionis fixedand cannot be altered except in case of exceptional circumstanceswithdueapprovalofnexthigherauthority.

(vii) Bills for percentage rate tenders shall be prepared at the estimated rates for individual items only and thepercentageexcess or lessshallbeaddedorsubtractedfromthegrossamount ofthebill

22. The bidder shall carefully study the tentative drawings and specifications applicable to the contract and all thedocuments which will form a part of the agreement to be entered in to by the accepted bidder and detailedspecifications for Odisha and other relevant specifications and drawings. Complain at a future date that plans andspecificationshavenot beenseenbythebidderscannotbeentertained.

23. The drawings if any furnished with the bid are tentative and subject to revision or modification as tendered duringthe execution as per actual necessity and detail test conducted. But the tendered rate quoted by the bidder will holdgood in case of such modification of drawings during the time of execution and shall in no way invalidate thecontract and no extra monetary compensation will be entertained. The work shall however be executed as per finalapproveddrawingtobeissuedbytheEngineer-in-Chargeasandwhenrequired.

24. Every bidder is expected before quoting his rate to inspect the site of the proposed work.The bidder should alsoinspectthequarriesandapproachroadstoquarriesandsatisfyhimself/themselvesaboutthequalityandavailability of materials.In every case the materials must comply with the relevant specifications.Complaints atfuturedatethat theavailabilityofmaterialsatquarrieshasbeenmisjudged cannotbeentertained.

25. The offer of bidder shall be inclusive of cost of construction and maintenance of island, ferry service, fair-weatherroad,serviceroad,Foot Bridge,pylonbase, winchstandandderrickstandetc.asrequiredforthework.

26. It must be definitely understood that the Government does not accept any responsibility for the correctness andcompleteness ofthetrialboringsshownintheCrossSection.

27. (i)Letter No 632 Dt 06/01/2026 issued by Works Department, Govt. of Odisha

28. In case of any discrepancy in printing or omissions of statutory specifications or any other part or portion of theapproved document during download of the bid document, the decision of the officer inviting the bid will bebindingonthebidder.

29. Thetendercontainingextraneousconditionsnotcoveredbythetendernoticeareliableforrejectionandquotationsshouldbe strictlyin accordancewiththetendercallnotice.Anychangeinthewordingwill not beaccepted.

30. i) Schedule of quantities are accompanied in Cover-II (Price Bid).It shall be definitely understood that theGovernment doesnot accept any responsibility for the correctness or completeness of this schedule and that thisschedule is liable for alternation or omissions, deductions or alternations set forth in the conditions of the Contractand suchomissions, deductions,additionsor alternationsshallno way invalidatethe contract andno extramonetarycompensation,willbeentertained. (notapplicableforworkwithin50.0Lakhsestimatedcost)

ii)Thequantitymentionedcanbeincreasedordecreasedtotheextentof10%forindividualitemssubjectto a maximum of 5% over the estimated cost. If it exceeds the limit stated above, prior approval ofcompetent authorityismandatorybeforemakinganypayment.

31. The authority reserves theright to reject any orall the tenders received without assigning any reasons there-ofwhat soever.

32. The bid security (earnest money) will be retained and dealt with as per the terms and conditions of the OPWDCode.AllotheramendmentstimetotimeOPWDcodesorevisedwillbetakenintoforce.

33. **i)Thenotificationofawardwillconstitutetheformationofthecontract,subjectonlytothefurnishing of a performance security (Initial Security Deposit) and additional performance security in formof Fixed deposit receipt of Schedule Bank/KissanVikashPatra/Post Office Savings Bank Account/NationalSavings Certificate/Postal Office Term Deposit Account duly pledged in favour of the Executive Engineer(Agril.), Nayagada Division, Nayagadaand payable at the place as specified in the Contract Data and inno other form which including the amount already deposited as bid security (earnest money) shall be 2% ofthe value of the tenderedamount (excluding 1% deposited towards hiring of equipment/machineries fromoutside the State if any) and sign the agreement in the PWD Form P-1 for the fulfillment of the contract inthe office oftheExecutiveEngineer(Agril.),NayagadaDivision,Nayagadaand payable at the placeas specified in the Contract Data or as directed. The security deposit together with the earnest money andthe amount withheld according to the provision of P1 agreement shall be retained as security for the duefulfillment of this contract and additional performance security in accordance with the provisions of theagreement.(Office memorandum No.-8943 Dt.18/03/2021 of Finance Department Govt. of Odisha) will befollowed.**

ii) No contract (tender) shall be finally accepted until the required amount of initial security depositand additional performance security deposit are received by the Engineer-in-Charge. The securitywill be refunded after One year of completion of the work/ audit and payment of the final bill andwillnotcarryanyinterest.

iii) As concurred by Law Department & Finance Department In their U.O.R. No 848 dtd.21.05.97J.O.R.No.202W.F.D.dtd.06.03.98respectivelytheE.M.D.willbeforfeitedincase,wherebidders/tenderersbackoutfromtheofferbeforeacceptanceoftenderbythecompetentauthority.

34. Additional performance security shall be taken on an incremental basis from the selected bidder for low bid prices in the project works as under (vide office memorandum no. **17941/W date 08.10.2026** of Govt. of Odisha Works Department). The rounded-off percentage so determined shall be referred to as the Rounding Off of Percentage

Less (ROPL) of accepted Bid Price and shall form the basis for calculation of the APS in accordance with the applicable incremental rate:

16.1 Where the accepted bid price is such that the ROPL is up to (-)10%, no additional performance security is required.

16.2 Where the accepted bid price is such that the ROPL is below (-)10% but not below (-)20%, the additional performance security percentage shall be incremented by 0.2% for every percentage of ROPL below (-)10%;;

16.3 Where the accepted bid price is such that the ROPL is below (-)20% but not below (-)30%, the additional performance security percentage shall be incremented by 0.3% for every percentage of ROPL below (-)20% in addition to 2% of the accepted bid price:

16.4 Where the accepted bid price is such that the ROPL is below (-)30% or more, the additional performance security percentage shall be incremented by 0.5% for every percentage of ROPL below (-)30% in addition to 5% of the accepted bid price.

16.5 The additional performance security shall be treated as part of the performance security.

16.6 Justification for abnormally low bids shall be scrutinized by the Departmental Technical Committee and recommended to the competent authority of the Administrative Department for the approval of the Additional Performance Security(APS). An abnormally low bid is one in which the Bid price, in combination with other elements of the Bid, appears so low that it raises material concems as to the capability of the Bidder to perform the contract at the offered price. Procuring Entity may, in such cases, seek written clarifications from the Bidder, including detailed price analyses of its Bid price in relation to scope, schedule, resource mobilization, allocation of risks and responsibilities, and any other requirements of the bid document., If, after evaluating the price analyses, the procuring entity determines that the Bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, the Procuring Entity may reject the Bid/Proposal. However, it would not be advisable to fix a normative percentage below the estimated cost, which would automatically be considered as abnormally low bid.

35. That for the purpose of jurisdiction in the event of disputes if any of the contract would be deemed to have beenentered in to within the State of Odisha and it is agreed that neither party to the contract will be competent to bringasuitinregardtothematterbythiscontractatanyplaceoutsidetheStateofOdisha.

36. The contractor should be liable to fully indemnify the department for payment of compensation under workmanCompensation Act. VIII of 1923 on any account of the workmen employed by the contractor and full amount ofcompensationpaidwill berecoveredfromthecontractor.

37. Bidders are required to abide by the fair wages clause as introduced by Govt. of Odisha, Works Department LetterNo.-VIII-R8/5225Dtd.26.02.55andNo.-IIM- 56/628842(5)Dtd.27.09.61asamendedfromtimetotime.

38. In case of any complaint by the labour working about the nonpayment or less payment of his wages as per latestminimum Wages Act, the Executive Engineer will have the right to investigate and if the contractor is found to bein default, he may recover such amount due from the contractor and pay such amount to the labour directly underintimation to the local labour office of the Govt. The contractor shall not employ child labour. The decision of theExecutiveEngineerisfinal andbindingonthecontractor.

39. Thecontractorshallbearcostof variousincidentals,sundriesandcontingenciesnecessitatedbyworkinfullwithinthefollowingorsimilarcategory.

a. Rent,royaltiesandotherchargesofmaterials,octroyduty,allothertaxesincludingsalestax,ferry,tollsconveyance charge and other cost on account of land and building including temporary building and temporaryelectric connection to work site as well as construction of service road and diversion road and its maintenance tillcompletion of work asrequired by the bidders forCollectionofmaterials, storage, housing of staff or otherpurpose of the work. No bidder will however be liable to pay Govt. for temporary occupation of land owned byGovt. at thesiteofthework.

b. Labour camps or huts necessary to a suitable scale including conservancy and sanitary arrangements therein to thesatisfactionofthelocal healthauthorities.

c. Suitable water supply including pipe water supply wherever available for the staff and labour as well as for thework.

d. Fees anddutiesleviedbythemunicipal,canalorwatersupplyauthorities.

e. Suitableequipmentandwearingapparatusforthelabourengagedinriskyoperations.

f. Suitablefencingbarriers,signalsincludingparaffinandelectricsignalwherenecessaryatworks andapproaches inordertoprotectthepublicandemployeesfromaccidents.

g. Compensationincludingthecostofanysuitforinjurytopersonsorpropertyduetoneglectofanymajorprecautionalsobecom epayableduetooperationoftheworkmencompensationact.

h. Thecontractorhastoarrangeadequatelightingarrangementfortheworkwhereevernecessaryathis owncost.

40. After the work is finalized, all surplus materials should be removed from the site of work. Preliminary work suchas vats, mixing platforms etc. should be dismantled and all materials removed from the site and premises left neatandclean,thisshouldbeinclusiveof therate.

41. No payment will be made for bench marks, level pillars profiles and benching and leveling the ground whererequired. The percentage rate to be quoted should be inclusive of carriage of all materials and incidental item ofworks.

42. It should be understood clearly that no claim what-so-ever will be entertained to extra items of works, extraquantity of any item besides agreement quantity unless written order is obtained from the Engineer-in-charge andratesettledbeforetheextraitemsofworkor extraquantityofanyitemsofworkistakenup.

43. The bidder shall have to abide by the C.P.W.D. safety code rules introduced by the Government of India, MinistryofworkHousingandSupplyintheirstandingorderNo-44150dtd.25.11.57.

44. Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms and conditions ofcontract and other necessary documents can be seen in the office issuing the documents during office hours everyday except on Sundays and Public Holidays till last date of sale and receipt of bid documents. Interested biddersmay obtain further information at the same address. But it must be clearly understood that the bids must bereceivedinorderandaccordingtotheinstructions.

45. Bidders are required to go through each clause of Form **P-1** carefully in addition to the clause mentioned hereinbefore tendering. In case of ambiguity, the clauses of Form **P-1** with latest amendments shall **supersede**

theconditionof**D.T.C.N.**

46. Steel shuttering & centering shall be used which shall be lined with suitable sheeting and made leak proof andwatertight.
47. The Department will have the right to inspect the scaffolding, centering and shuttering made for the work and canreject partlyorfullysuchstructuresiffounddefectiveintheiropinion.
48. Concrete should be machine mixed unless otherwise ordered in writing by the Executive Engineer. The contractorshouldarrangehis ownconcretemixer, vibrator,andpumpsetc.forthispurposeat his owncost.
49. Cementshallbeusedbypaperbags andweightof onebagofcementbeingtakenasfifty(50)Kg.
50. The bidder should arrange the materials like Steel, Cement, paint and bitumen etc. of approved quality andspecification at his own cost for completion of the work with the time schedule. No extension of time will begrantedontheapplicationofthebidderduetodelayinprocurement ofmaterials.
51. The bidder will be responsible for the loss or damage of any departmental materials during transit and in theexecution of the work due to reasons what – so-ever and the cost of such materials will be recovered from the billsatstockissuerates ormarketrateswhicheverishigher.
52. If the bidder removes Government materials supplied to him from the site of work with a view to dispose of thesame dishonestly, he shall be in addition to any other liability civil or criminal arising out of his contract be liabletopayapenaltyequivalenttofivetimesofthepriceofthematerialsaccordingtothestockissuerateormarketrate whichever is higher. The penalty so imposed shall be recovered at any time from any sum that may then or atanytimethereafterbecomeduetothebidderorfromhissecuritydepositorfromtheproceeds ofsalethereof.
53. The contractor should at his own cost arrange necessary tools and plants required for the efficient execution ofworkandtheratesquotedshouldbeinclusiveof therunningchargesofeachplantandcostofconveyance.
54. No extra payment will be made for the jungle clearance for taking earth from the borrow areas. Earth work fromcuttingshallbeeconomicallyutilizedinfilling.
55. Thestackofroadmetalandgravel willbemeasuredinboxesof1.5m×1.5M ×0.5Mwhichwillbetaken as1.5m ×1.5M×0.44M=1cum.Thesolingstoneswill bemeasuredinthesuitablestackswithdeductionforvoids@1/6ofvolumeormore depending upon the loosenessof stacking which would be determined on actual observationanddeduction.
56. Thedepth offoundationindicatedonthe drawingareprovisionalbutthesemaybealtered,ifnecessary,inthelightofthenatureofstrataindicatedbyboringwhichmust betakeninadvanceofactualexecutionof the foundation.
57. Constructionofcofferdamorislandortheworkofopenexcavationordressingorlabourforlayingwellcurbsshallbeincluded intherate.
58. a) Itshouldbeclearlyunderstoodthatthejointsofthebarsaretobeprovidedwithlapping,weldsorboltsnutsaswill bedirectedbytheEngineer-in-charge.
    b) Concrete test specimens 150mm × 150mm × 150mm in size (whether plain or reinforced concrete) for the testingshall be taken for each structural member by a representativeof the contractor in the presence of responsibleofficer of the rank not lower than that of an Assistant Engineer or sub-Divisional Officer. The contractor shall bearthe cost so involved in testing.The test specimen in cube should be carried out in the Departmental QualityControl and Research Laboratory of Cuttack or Bhubaneswar. Test should be carried out in accordance with thestipulationinBridgescodesection-III.
    c) Test specimens shall be formed carefully in accordance with the standard method of taking test specimen and noplea shall be entertained later on the grounds that the casting of the test specimen was faulty and that the result ofthespecimendid notgiveacorrect indicationoftheactual qualityofconcrete.
    d) Plain concrete and reinforced concrete specimens will be tested in Government Test Houses at Alipore or QualityControl and Research Laboratory at Bhubaneswar. Cost of testing of all specimens and samples will be borne bytheContractor.
    e) Cement orgroutincoarseaggregateplacedinpositionshallnotbepermitted.
59. Concreteofstrengthbelowoftherequiredstrength(as determinedbyactualtests)shallnotbeaccepted.
60. Noclaimforcarriageofwaterwhat-so-everwillbeentertained.
61. **Amendment of existing Clauses** :- By admission of a tender for the work, a tenderer will be deemed to havesatisfied himself by actual inspection of the site and locality of the work, about the quality and availability of therequired quantity of material including the wheat/ rice referred to above, medical aid, labour and food stuff etc.,and that rates quoted by him in the tender will be adequate to complete the work accordingto the specificationsattached there to and that he had taken in to account all conditions and difficulties that may be encountered duringits progress and to have quoted rates including labour and materials with taxes , octroy ,other duties, lead, lifts,loading and unloading, freight for all materials and all other charges necessary for the completion of the work, tothe entire satisfaction of the Engineer-in –Charge of the work and his authorized subordinates. After acceptance ofthe contract rate Government will not pay any extra charges for any reason in case the contractor claims later on tohavemisjudgedasregardavailabilityofmaterials,labourandotherfactors.
62. The prevailing percentage of I. T. Department of the gross amount of the bill towards income tax will be deductedfromthecontractor'sbill.
63. Prevailing rate of VAT on thegross amountof the bill will be deducted from the contractor'sbill, whereAgreement Valueisonelakhandabove.

64. The contractor is required to pay royalty to Govt. as fixed from time of time and produce such documents insupport of their payment to the concerned Executive Engineer with their bills, falling which the amount towardsroyalties of different materials as utilized by them in the work will be recovered from their bills and deposited intherevenueofconcerneddepartment.

65. CESS @ 1 (one)% of the amount of the estimated cost as per Tender notification read with latest corrigendum ifanywillbeproportionatelydeductedfromtheContractor'sbillatthetimeofmaking payment ofeach bill.

66. Under nocircumstancesinterestischargeableforthedues oradditionalduesifanypayableforthework.

67. <u>Under section 12 of contractorslabour (Regulation and Abolition) Act. 1970 the contractor who undertakesexecutionofworkthroughlabourshouldproducevalidlicensefromlicensingauthoritiesoflabourDepartment</u>.

68. **Sample of all material –**The contractor shall supply sample of all materials fully before procurement for the workfortestingandacceptanceasmayberequiringbytheconcernedExecutiveEngineer.

69. Any defects,shrinkage or other faultswhich may be noticed within**12(twelve) months**from the completion ofthe work arising out of defective or improper materials or workmanship timing are upon the direction of theEngineer-in-Charge to be amended and made good by the contractor at his own cost unless the Engineer forreasons to be recorded in writing shall be decided that they ought to be paid for and in case of default Departmentmay recover from the contractor the cost of making good the works. The defect liability period for the work is **12(twelve)calendarmonths**fromthedateofsuccessful completionofthework.

70. From the commencement of the works to the completion of the same, they are to be under the contractors charge.The contractor is to be held responsible to make good all injuries, damages and repairs occasioned or renderednecessarytothesamebyfireorothercausesandtheyholdtheGovt.ofOdishaharmlessfor anyclaimsfor injuriesto person or structural damage to property happening from any neglect, default, want of proper care or misconducton the part of the contractor or any one in his employment during the execution of the work. Also, no claim shallbe entertained for loss due to earthquake, flood, cyclone, epidemic, riot or any other calamity whether natural orincidental damages socausedwill have to bemadegoodbythecontractorathisowncost.

71. For diversion road the contractor will have to make his own arrangement to make the same in private land ifnecessary for which agreement of such land by the side of C.D. works and the rental charges for such private landshall be borne by the contractor including the proper maintenance with lighting arrangements during the night timeand signaling during day time and barricading etc. till the C.D. works are opened to the traffic. No extra cost willbe paid to the contractor for the above rental charges etc. His rate in the tender shall include this arrangement,rental charges for the land and maintenance, lighting and removal of such temporary road crust from the privatelandtobringthelandtoitsoriginalconditionetc.complete.

72. The contractor has to arrange the land required for borrowing earth if necessary for the road work at his cost. Noextra payment by the Department will be made on this account and no claim what-so-ever will be entertained onthis ground. Theratequotedbythecontractorshouldbeinclusiveofallsuchcharges.

73. The details of foundation, sub-structure and floor protection for execution shall be done in accordance with the testresultsthusobtained.

74. The contractor shall have no claim what so ever for the extra quantity of work to be executed in view of abovepossiblechangesandpaymentsistobemadeasper ClauseoftheContract.

75. Over and above these conditions, the terms and conditions and rules and regulations and specifications as laiddown in Odisha P.W.D. Code, Bridge code and MoSRT&HSpecifications with latest revision / amendment arealsobindingonthepartofthecontractor.

76. No part of the contract shall be sublet without written permission of the concerned Executive Engineer or transferbemadebypowerofAttorneyauthorizingothers toreceivepayment onthecontractor's behalf.

77. The contractor should attach the certificate in token of payment deposit with the registration authority as per recentcircularoftheGovernment relatingtohisregistration.

78. Any damages caused by natural calamities should be done by the contractor at his own cost. The Department willnotbeanywayresponsibleforthesameandwill not payanycost towards therepairdonebythecontractor.

79. The rate quoted by the contractor shall cover the latest approved rates of labours, materials, P.O.L. and Royalties.Arrangementofborrowareas; land,approachroadtothebridgesiteetc.aretheresponsibilityofthecontractor.

80. Theconcreteitemswhereverdewateringis imperativelynecessarythetermdewateringshallmeantheexecutionoroperation of the items due to standing water as well as due to percolation of water. The quoted rate will beinclusive ofthis.

81. The materials, borrow areas and hutments at site should be arranged by the contractor at his own cost. No futurecomplaint onthisaccountshallbeentertained.

82. i) Besides, the firm / contractor shall install full-fledged field laboratory at work site for conductingrequired tests as per IRC/MoSRT&H/ISI requirements at his own cost for providing sufficient opportunity forcheckingfromtimetotime.

    a. An Engineering personnel of the executing agency should be present at work site at the time of visit ofhigh-levelinspectingofficersintherankofChiefEngineerandabove.

83. Even qualified criteria are met, the bidders can be disqualified for the following reasons, if enquired by theDepartment

(a) Makingafalsestatementordeclaration.

(b) Pastrecordofpoorperformance.

(c) Pastrecordofabandoningtheworkhalfway/recessionofcontract.

(d) Pastrecordof in-ordinatedelayincompletionofthework.

(e) Pasthistoryoflitigation.

84. The information furnished must be sufficient to show that the applicant is capable in all respects to successfullycompletetheenvisagedwork.

85. **In case the 1st lowest tenderer or even the next lowest tenderers withdraw in series one by one, therebyfacilitating a particular tender for award, then they shall be penalized with adequate disincentives withforfeiture of EMD unless adequate justification for such back out is furnished. Appropriate action for blacklisting thetendererssshallalso betakenapartfromdis-incentivizingthetenderer**.

86. ADDENDUMTOTHECONDITIONOFP1CONTRACT

Clause-2 (a) of P-1 Contract: -TIME CONTROL (Vide Works Department Office Memorandum No.24716dt.24.12.2005and No.8310dt.17.05.2006):-

2.1. ProgressofworkandRe-schedulingprogramme.

2.1.1. The Executive Engineer / Engineer- in- Charge shall issue the letter of acceptance to the successful contractor. TheissueoftheletterofacceptanceshallbetreatedasclosureoftheBidprocessandcommencementofthecontract.

2.1.2. Within 15 days of issue of the letter of acceptance, the contractor shall submit to the Engineer-in-Charge forapproval a programme showing the general methods, arrangements, and timing for all the activities in the Worksalongwithmonthlycashflowforecast.

2.1.3. To ensure good progress during the execution of the work the contractors shall be bound in all cases in which thetime allowed for any work exceeds one month to complete, ¼th of the whole time allowed under the contract haselapsed, ½ of the whole of the work before ½ of the whole time allowed under the contract has elapsed, ¾th of thewholeoftheworkbefore¾th ofthe wholetimeallowedunder thecontracthaselapsed.

2.1.4. If at any time it should appear to the Engineer-in-Charge that the actual progress of the work does not conform totheprogramme to which consent has been given the Contractor shall produce, at the request of the Engineer-in-Charge, a revised programme showing the modifications to such programme necessary to ensure completion of theworks within the time for completion. If the contractor does not submit an updated Programme within this period,the Engineer-in-Charge may withhold the amount of 1% of the contract value from the next payment certificateand continue to withhold this amount until the next payment after the date on which the overdue Programmehasbeensubmitted.

2.1.5. An update of the Programme shall be a programme showing the actual progress achieved on each activity and theeffect of the progress achieved on the timing of the remaining work including any changes to the sequence of theactivities.

2.1.6. The Engineer-in-Charge's approval of the Programme shall not alter the Contractor's obligations. The Contractormay revise the Programme and submit it to the Engineer-in-Charge again at any time. A revised Programme is toshowtheeffectofVariationsandCompensationEvents.

2.2. Extensionof theCompletionDate

2.2.1. The time allowed for execution of the works as specified in the Contract data shall be the essence of the Contract.The execution of the works shall commence from the 15th day or such time period as mentioned in letter of Awardafter the date on which the Engineer-in-Charge issues written orders to commence the work or from the date ofhanding over of the site whichever is later. If the Contractor commits default in commencing the execution of thework as aforesaid, Government shall without prejudice to any other right or remedy available in law, be at libertytoforfeit theearnest money& performanceguarantee/ Securitydepositabsolutely.

2.2.2. As soon as possible after the Contract is concluded the Contractor shall submit the Time & Progress Chart for eachmilestoneandgetitapprovedbytheDepartment.TheChartshallbepreparedindirectrelationtothe timestatedinthe Contract documents forcompletion of itemsof the works. It shall indicate the forecast of the dates ofcommencement and completion of various trades of sections of the work and may be amended as necessary byagreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in thecontractdocuments,andfurthertoensuregoodprogressduringtheexecutionofthework,thecontractorshallinall cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separateprogrammehasbeenagreedupon)completetheworkaspermilestonegivenincontractdata.

2.2.3. In case of delay occurred due to any of the reasons mentioned below, the Contractor shall immediately give noticethereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent ormake good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Chargetoproceedwiththeworks.

i) Forcemajeure,or
ii) Abnormallybadweather,or
iii) Seriouslossordamagebyfire,or
iv) Civil commotion,local commotion of workmen,strikeorlockoutaffectingany ofthetradesemployedonthework,or.
v) Delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executingworknotformingpart oftheContract.
vi) In case a Variation is issued which makes it impossible for Completion to be achieved by theIntended Completion Date without the Contractor taking steps to accelerate the remaining work andwhichwouldcausetheContractorto incuradditionalcost,or
vii) Any other cause, which, in the absolute discretion of the authority mentioned, in Contract data isbeyondtheContractorscontrol.

2.2.4. Request for reschedule and extension of time, to be eligible for consideration, shall be made by the Contractor inwriting within fourteen days of the happening of the event causing delay. The Contractor may also, if practicable,indicateinsucha requesttheperiodforwhichextensionisdesired.

2.2.5. In any such case a fair and reasonable extension of time for completion of work may be given.Such extensionshall be communicated to the Contractor by the Engineer-in-Charge in writing, within 1 months of the date ofreceipt of such request. Non-application by the contractor for extension of time shall not be a bar for giving a fairandreasonableextensionbytheEngineer-in-Chargeandthisshallbebindingonthecontractor.

2.3. CompensationforDelay.

2.3.1. If the contractor fails to maintain the required progress in terms of clause of **Contract** or to complete the work andclearthesiteonorbeforethecontractorextendeddateofcompletion,heshall,withoutprejudicetoanyotherrightor remedy available under the law to the Government on account of such breach, pay as agreed compensation theamount calculated at the rates stipulated below as the Executive Engineer (whose decision in writing shall be finaland binding) may decide on the amount of tendered value of the work for every completed day / month (asapplicable) that the progressremains below that specified in Clause of**Contract**orthat the work remainsincomplete.

This will also apply to items or group of items for which a separate period of completion has beenspecified.Compensation@1.5%permonthfordelayofwork, delayto becompletedonperDaybasis.

Provided always that the total amount of compensation for delay to be paid under this condition shall notexceed10% oftheTenderedValueofwork.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor underthis or any other contract with the Government. In case, the contractor does not achieve a particular milestonementioned in contract data, (which is in this case the original work programme furnished by the Contractor andapprovedbytheEngineer-in-Chargewhichformedapartofagreement)ortherescheduledmilestone(s)intermsofClause of **Contract**, the amount shown against that milestoneshall be withheld, to be adjusted against thecompensation levied at the final grant of extension of time. Withholding of this amount on failure to achieve amilestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with theprogress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor failstomakeupforthedelayinsubsequentmilestone(s),amountmentionedagainsteachmilestonemissedsubsequentlyalso shallbewithheld.However,nointerestwhatsoevershallbepayableonsuchwithheldamount.

2.4. ManagementMeetings.

2.4.1. Either the Engineer or the Contractor may require the other to attend a management meeting. The business of amanagement meetingshallbetoreviewtheplansfor remainingworkandtodealwithmattersraisedinaccordancewiththeearlywarningprocedure.

87. A Contractor may be black listed as per amendment made to Appendix XXXIV to OPWD Code Vol.-II on rulesforblacklistingofContractors videletterno.3365dt.01.03.2007ofWorks Department, Odisha.

AspersaidamendmentaContractormaybeblacklisted

- **a.** Misbehavior/threateningofDepartmental&supervisoryofficersduringexecutionofwork/tenderingprocess.
- **b.** Involvementinanysortoftenderfixing.
- **c.** Constant non-achievement of milestones on insufficient and imaginary grounds and non-adherence to qualityspecificationsdespitebeingpointedout.
- **d.** Persistentandintentionalviolationofimportantconditionsofcontract.
- **e.** Securityconsiderationof theStatei.e.,anyactionthatjeopardizesthesecurityoftheState.
- **f.** Submissionoffalse/fabricated/forgeddocumentsforconsiderationofatender.

88. **EIGIBILITYCRITERIA:-**Tobeeligibleforqualification,applicantsshallfurnishthefollowings.

(a) Tobeeligibleforqualification,applicantsshallfurnishthefollowings.Non-furnishingofthefollowingparticularsshallbetreatedasineligible.

1. CopyofvalidRegistrationCertificate
2. CopyofPANCard
3. CopyofG.S.T. RegistrationCertificate
4. **Schedule-A**regardingNoRelationCertificate
5. **Schedule-E**regardinglitigationdebarring/expellingoftheapplicantorabandonmentofworkbyapplicantinprescribedschedule .
6. **Schedule-F** affidavit to this effect alongwith authentication of tender document in prescribed schedule. Thename of the work(s) withTender Call Notice No. should be mentioned in the affidavit for which the tenderer isparticipating.
7. Affidavitregardingnon-awardingof morethantwonos.ofworksinthecurrentfinancialyearforEngineeringContractorforavailingpricebenefit.
8. Alltheabovedocumentsuploadedshouldbeclearlyvisible.
9. Theoriginaldocuments,whenaskedfor,hastobeproducedbeforethetenderinvitingauthorityforverificationduringoff icehours.

11.**(A)Thebiddershouldhavesatisfactorilycompletedthesimilarnatureofworksduringthelast THREEyearsending previousdayoflastdate ofsubmissionoftenders**.

1. Threesimilarworkseachcostingnotlessthan40%oftheestimatedcostoftheproject.OR

2. Twosimilarworkseachcostingnot lessthan60%oftheestimatedcostoftheproject.OR

3. Onesimilar workcostingnotlessthan80%oftheestimatedcostoftheprojectORNOTLESSTHANRs.10.00LAKHS.

SimilarworksshallmeanconstructionofamultistoriedRCCframedcomposite

(Civil+EI+PH)buildingexecutedunderoneagreementforanyauthoritybodiesofstate/centralGovt.WithCert

ificatefromtheconcernedofficernot below therankofExecutiveEngineeror

Equivalentneedtobefurnishedbythebidderas perScheduled.

TheinformationonofBidCapacityas onthedateofthisbidis tobefurnishedas pertheformat :

I. Non-submission of required information in schedules shall be treated as non-responsive and the bid shall besummarilyrejected.Thedocumentsuploadedforonebidorpartthereofshallnotbeconsideredduringevaluationofother bidandeachbid shallbeevaluatedas perthedocumentsuploadedfortheparticularbid.

N.B. Thebidderwhomeetstheaboveminimumeligiblecriteriashallbequalified.Total: -88(Eighty Eight)clausesonly.

Approved

Sd/-Er.SudhansuSekharDas
Executive Engineer (Agril.)
NayagadaDivision,Nayagada,

Tenderer(s)is/arerequiredtosubmittheinformationinthefollowingSchedules

SCHEDULE-A

CERTIFICATEOFNORELATIONSHIP

I/We hereby certify that I/We* am/are* related / not related (*) to any officer in the rank of a AssistantEngineer & above in the State PWD or Assistant / Under Secretary & above in the works Deptt.I/We* am/are* aware that, if the facts subsequently proved to be false, my/our* contract will berescinded with forfeiture of E.M.D and security deposit and I/We* shall be liable to make good thelossordamageresultingfromsuch cancellation.

(*)-Strikeoutwhichisnotapplicable

SignatureoftheTenderer
Date:-

SCHEDULE - B

EXISTING COMMITMENTS AND ON-GOING WORKS:

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

* The above information is to be certified by the Engineer in Charge / Employer not below the rank ofExecutive Engineer or equivalent. In case of there is no existing commitment and ongoing works, the biddershall declare as nil in schedule B.

Signature of the Tenderer
Date……..

SCHEUDLE – C

Sch-C:WORK EXPERIENCE
LIST OF SIMILAR NATURE OF PROJECTS EXECUTED
(Similar work means Civil & Electrical Works):

Name of Employer	Name of location and name of work	Contract price in Indian Rupees/ Agreement no.	Major Items of works	Stipulated date of commencement / completion of the work as per Agreement	Actual date of completion of the work	Value of work actually executed during last 3 financial years		Reasons for delay in starting/ completion, if any
						Financial year	Value	
1	2	3	4	5	6	7	8	9
						2023-24 2024-25 2025-26		

Note: The above information is to be certified by the Engineer in Charge / Employer not below the rank ofExecutive Engineer with specific mention/description of civil & electrical works).

Signature of the contractor

Signature of the Exe.Engineer
Date with official seal.

SCHEDULE-"D"

INFORMATIONREGARDINGCURRENTLITIGATION,DEBARRINGEXPELLINGOFTENDEREDOR ABANDONMENTOFWORKBYTHETENDERER

1.	a)	Isthetenderer currentlyinvolvedin any litigation relating to theworks.	Yes/No
	b)	Ifyes:givedetails:	
2.	a)	Has the tenderer or any of itsconstituentpartnersbeendebarred /expelled by any agency in Indiaduringthelast 5years.	Yes/ No
3.	a)	Has the tenderer or any of itsConstituent partners failed toperformonanycontract workinIndia duringthelast5years.	Yes/ No
	b)	Ifyes,givedetails:	

Note:

Ifanyinformationinthisscheduleisfoundtobeincorrectorconcealed,qualificationapplicationwillbesummarilyberejected.

Signatureof thetenderer

SCHEDULE -E

AFFIDAVIT

1. The undersigned do hereby certify that all the statements madein the required attachments aretrueandcorrect.
2. Theundersignedalsoherebycertifiesthatneither**ourfirmM/s noranyof its constituent partners / I** have abandoned any road/ bridge/Irrigation /Buildings or otherproject work in India nor any contract awarded to us / me for such works have been rescindedduringthelastfiveyearspriortothedateofthisbid.
3. The undersigned hereby authorized and request (s) any bank, person, firm or Corporation tofurnish pertinent information as deemed necessary and as requested by the Department to verifythisstatementor regardingmy(our)competencyand generalreputation.
4. The undersigned understands and agrees that further qualifying information may be requested andagreetofurnishanysuchinformationattherequestoftheDepartment.

(Signedofthetend
erer)Name:-
Firm
Name:-
Date:

SCHEDULE – F

JOINT VENTURE AGREEMENT/MEMORANDUM OF UNDERSTANDING:

(FOR EXECUTION OF ELECTRICAL PORTION OF WORKS)

BIDDERSCONTACTINFORMATION

First Party I Sri/Smt.……, Aged …. Years, S/O- ……..……., At / P.O. / Dist-…… (hereinafter called the First Part) AND Second Party I Sri/Smt.……, Aged …. Years, S/O- ……..…., At / P.O. / Dist-…… (hereinafter called the Second Part) having H.T. / L.T./ MV license registration No……. valid up to …….. issued by the ELBO, ODISHA. AND WHEREAS the First Party of 1st part is the managing partner of ……. AND WHEREAS the First Party willing to appoint the Second Party to execute the E.I. portion for the tender work, "……." AND WHEREAS the Second Party accepted the offer of First Party.

NOW THIS DEED OF AGREEMENT WITNESSES AS FOLLOWS;-

1)That, the Second Party shall do all E.I. works, if the tender is awarded to First Party.

2) That, the Second Party shall fulfill all the E.I. works as per the tender schedule by instruction of Divisional Head.

3) That, the First Party shall receive payment, signing the bill the document for the concerned work.

4) That, the Second Party shall abide the rules, regulations and specification of E.I. works of above said matter.

In witness where of both the party have signed in presence of

WITNESS W1 –

W2 –

REGDNO:……./DATED- ……

(Regd. No. of Notary with seal & Signature)

NB: (Only Registered Joint Venture, can participate in the Bidding)

BIDDERS CONTACT INFORMATION

Name of theBidder

:Address:

Telephone No.

:MobileNo. :

WhatsApp No:-

E _mailId:

Signatureof thetenderer

SECTION-II

GENERALINFORMATION&TECHNICALSPECIFICATIONOFWorks:

AsSPECIALCONDITIONS:(PARTOFTHECONTRACT):

All materials before they are being used in the itemsof works as per this Schedule ofquantities andalso the finished items of work where tests are applicable shall have to be testedthrough the Engineer-in-charge of the respective wing at appropriate laboratories according to therelevant I.S. specifications of the materials and the said items of works and the cost of all such testsshall have to be borne by the Contractor and the rates of the items of works should be inclusive of costof suchtests.

All reinforced cement work should conform to Orissa Detailed specification and should be ofproportion as per Contract Agreement having desired compressive strength (in work test) in 15 CmcubesAt28days, aftermixing and testconducted in accordancewithIS 456 andIS516.

All fittings for doors and windows P.H. & Electrical works as supplied by the Contractorshould be of best quality and conform to relevant I.S. specification and should be got approved by theEngineer-in-chargeofthe respectivewing beforetheyareused on thework

The contractor should arrange the materials like Steel, Cement, paint and bitumen etc. ofapprovedqualityandspecificationathisowncostforcompletionoftheworkwiththetimeschedule.The coarse and fine aggregate shall meet the grade requirement as per the latest provision ofrelevant.I.S. Code /I.R.C. code /MoRT&H specifications.

All items of work as per schedule of quantities of this tender should confirm to Orissa DetailedStandard Specification. I.R.C. & I.S.I. Codes & Bridge code section I,II, III,IV&VII & latest designcriteriaforpre-stressedconcretebridgespeciallyforRoads&BridgesissuedbyMoRT&H.,GovernmentofIndia.

Centering& Shuttering shall bewithsuitable steel shutters in side of which shallbe linedwith suitable sheeting and made leak proof and watertight. All joints in formwork shall be properlysealedpreferablywith P.V.C. joints sealing tapes& compounds.

PART-I:TECHNICALSPECIFICATIONOFCIVILPORTIONOFWORK:

TECHNICALSPECIFICATIONOFCIVILPORTIONOFWORK

(Tovaryasperthe scopeof theWork)

Materialsoffollowingspecificationaretobeusedinwork.TheTenderersareexpectedtopossessandbe wellconversantwith the following IS standard andcodeofpractice.

1.	Cement	WillbeasperI.S.269/255(Howeverthegradeofcementtobeselected by the Engineer-in-Charge of work and compressive cube testbeforecommencementof workin each batch).
2.	Steel	I.S.432(Plain)and1786(Tor)
3.	Vibrator	I.S.7246
4.	Aggregate	I.S.383, I.S. 515
5.	Water for mixing andcuring	Shallbeclean,freefrominjuriousamountofoil,salt,acid,vegetablematerial sandothersubstancesandharmfultoconcreteinconformity

		toI.S.456andI.S. 2025.
6.	Sand/FineAggregate	I.S.2116,383
7.	Binding wire	I.S.280(galvanisedminimum1mm)
8.	Rain waterpipe	I.S.2527
9.	Constructionjoints	I.S.3414
10.	SteelWindowFrame	I.S. 1038/83
11.	SteelDoorFrame	I.S. 4351/75
12.	Fitting&Fixturesforj oineryworks	ConformingtoI.S.7452/82strictlyconformtoI.S.specificationandasperdirection ofEngineer-in-Charge.

Note: Forroadwork(ApproachRoad)specificationasperroadandbridges(latestedition)publishedby I.R.C&M.O.S.T.shallbefollowed.Incaseofanydoubtandabsenceofprovision,regardingspecificationI.S. shall be referred (Indian standard).

ITEMOF WORK

1. Concreteshallbewithconformitytol.S.456.
2. Foundationshallbe withconformityto I.S.1080.
3. Stonemasonry(R.R.)shallbewithconformitytoI.S.1597(Part-I)
4. C.R.Masonryshallbewithconformitytol.S.1597.
5. Brickmasonryshallbe withconformitytoI.S.2212.
6. Cementplastering shallbewithconformitytoI.S.9103&6925.
7. MortarshallbewithconformitytoI.S.2250
8. Whiteandcolourwashingshallbe withconformitytoI.S.6278.
9. CCinfoundationshallbe withconformitytoI.S.2571.
10. Anti-Termite TreatmentshallbewithconformitytoI.S.6813. (Part– I&Part– II)
11. Paintingtoall surfacesshall be withconformitytoI.S.2395(Part– I&Part– II)
12. DPCshallbewithconformitytoI.S.3067
13. Tarfelttreatmentshallbewithconformitytol.S.1346
14. MosaicflooringwithconformitytoI.S.2114
15. Steelpainting shallbewithconformitytoI.S.1477 (Part–I&Part–II)I.S.1661

Materials of following specification are to be used in work. The contractor is expected to possess andbewellconversantwiththefollowingISstandardandcodeofpractice.INCASEOFNONAVAILABILITY OFMATERIALOFTHE SPECIFIEDBRAND,ALTERNATIVE MATERIALS CAN BE UTILISED WITH DUE APPROVAL OF THE TENDER ACCEPTINGAUTHORITY

CEMENT : KONARK/ACC/ULTRATECH-53grade(IS-1489/1991andIS12269/1987)STEEL/REINFORCEMENT:SAIL/RINL/TISCON/JINDAL/SHYA

M-(Fe-500D-I.S-1786/2008)

VITRIFIEDTILES:JOHNSON/KAJARIA/SOMANYC
ERAMICTILES:SOMANY/KAJARIA/JOHNSON
CEMENTCONCRETE
TILES:ULTRA/EUROCONorEQUIVALENTCEMENTCHECQUERED
TILES:GICCOorEQUIVALENT
WATERPROOFINGCOMPOUND:FOSROC/SIKA/PIDILITE
INSIDEEMULSUIONPAINTS:ASIAN-APCOLITEULTIMA/BERGER-EASYCLEAN/
DULUX-SOLITAIRE-A1000
OUTSIDEWEATHERCOATPAINT:ASIAN-APPEX/BERGER-ANTIDUSTT/DULUX-
WEATHERSHIELDE1000
ENAMAIL PAINT (HIGLOSS) :
ASIAN/BERGER/DULUXANTITERMITE : BAYER/DURSBAN/
TAFABANWATERPROOFINGCEMENTPAINT:ASIAN/BERGER/SUR
FACOATCEMENTPRIMER(OUTSIDEWALL):ASIAN/BERGER/DUL
UX
PRIMER FORINSIDEWALL:ASIAN (DECO)/BERGER/DULUX(SEALERA700)M.S.SECTION
:JINDAL, TISCON,SAIL
EPOXY GROUT(FOR TILE) : SIKA,
MYKANCHOR BOLT : FISCHER,
HILTI(FIXING
OFCHOUKATH&WINDOW)
GLASS:MODIFLOAT/ASAHI/SAINTGOBAIN
PUTTY :BIRLA/JK/DALMIAMAGIC
ALUMINIUMSECTIONS:JINDAL/INDAL/OEL/HINDALCO/ALUMA
DHESSIVE: FEVICOL/ARALDITE/ROYALBOND
FLUSHDOOR:GREENPLY/MAYUR/CENTURY/
BLOCKBOARD&PLYWOOD:GREENPLY/MAYUR/CENTURY/L
AMINATES:GREENPLY/MAYUR/CENTURY/
LOCKS :
GODREJ/DORSET/HAFELLEHARDWARES:DORM
A/HAFELLE/SUJU/DORSET
CEMENTCONCRETEPIPES:INDIANHUMEPIPE/MMMETAL&CODOO
RCLOSER :DORMA/HAFELLE/HARDWYN/GODREJ
FRP DOOR
:RAJASHREE/KRISHNA/DARWAJAALUMINIU
M WINDOW :
DOMAL/REKLADSTEELSECTION:TATA/JIND
AL/SAIL(GR-
304)PAVERBLOCK:TUFFSTONE/EARTHPAVE
R

Aggregate :I.S.383,I.S.515

Waterformixing and curing :shallbeclean,free frominjurious amountofoil, salt, acid,vegetable materialsandothersubstancesandharmfultoconcreteinconformity toI.S. 456 andI.S. 2025.

Sand/FineAggregate :I.S. 2116,383

Binding wire :I.S.280(galvanisedminimum1 mm)

Rain waterpipe :I.S. 2527

Constructionjoints :I.S. 3414

SteelWindowFrame :I.S.1038/83

SteelDoorFrame :I.S.4351/75

Fitting&Fixturesforjoineryworks:ConformingtoI.S.7452/82strictlyconformtoI.S.specification andas perdirection ofEngineer-in-Charge.

IS(Indianstandard)Specificationtobefollowed forthe-ITEMOFWORKs:

1. Concreteshallbe withconformitytoI.S.456.
2. Foundationshallbe withconformityto I.S.1080.
3. Stone masonry(R.R.)shallbewith conformitytoI.S.1597(Part-I)
4. C.R.Masonryshallbe withconformitytoI.S.1597.
5. Brickmasonryshallbe withconformity toI.S.2212.

6. Cementplasteringshallbewithconformity toI.S.9103&6925.
7. Mortarshallbewith conformitytoI.S.2250
8. White andcolourwashingshallbewithconformity toI.S.6278.
9. CCinfoundation shallbewith conformitytoI.S.2571.
10. Anti-Termite Treatmentshallbewithconformitytol.S.6813.(Part–I&Part–II)
11. Paintingto allsurfacesshallbe with conformitytoI.S.2395(Part– I&Part–II)
12. DPCshallbe withconformitytoI.S.3067
13. Steelpaintingshallbe with conformitytoI.S.1477(Part–I&Part–II)I.S.166PART-

II:P.H. Items ofWork):

The quantities of items mentioned in bill of quantities may increase or decrease during execution ofworks but the contractor will complete the work as per his Bid rates in accordance with the instructionof Engineer –in-charge.

1. Specification:ThestandardPHDandPWDspecificationwillbefollowedforexecutionofwork.During the course of execution of work, the instructions of the Engineer- in- charge shall be thefinaland binding.
2. It is the responsibility of the Contractor to arrange watch and ward to the installation until testingcommissioningandhandingoverforwhichno extrapaymenttowards watchandwardwillbepaid.
3. Allmaterialsrequiredfor theworkshallbesuppliedbythe contractorasperstandard /I.S.Specificationsorof best qualityappended with dueapprovalbythe Engineering inchange .

TECHNICALSPECIFICATIONSOFP.H.ITEMSOFWORK
Specificationsofpipes&PHfittingsSl.
No.ItemSpecification
1.GIPipes :TATA /Jindal/BST
2 (a)CPVC pipes :
(a)ASTRAL/ASHIRBAD/SUPREME(b)UPVC pipes:
(b)SUPREME/ORIPLAST/PRINCE/ASTRAL3PVCPipes
:ORIPLAST/NEELPLAST/SUPREME
4BibCock&CPfittings:Jaquar//CERA
/Hindware/Parryware/PLAZA5Vitreous Sanitaryware:Hind
ware/CERA/Parryware/ Jaquar
6 DIPipes:TATA/ELECTROSTEEL/JINDAL
7 StainlessSteelKitchen sink :Nirali/Jaquar
/Ajanta8SWRpipes :Prince/Supreme/Oriplast/Astral
9 OverheadWaterTank:SYNTEX/SUPREME
10 Gun
metalFullwayvalve:Leader/Santh/AmberwithISspecification11GIPipe
fittings:KSBRAND/JINDAL/KIRTI/CRBRAND
12 Mirror:MODIGUARD/SAINTGOBAIN/ASAHI
13 FERRULES:LEADER/HIMSON/SANTA
14 GateValve/CheckValve:LEADER/KIRTI/ANUPAMA1
5BrassFittings :Jacquar/Plaza/Hindware/Cera
16 NahaniTrap:SILK/SUSHILA
17 PUMPS:KIRLOSKER/LUBI
18 BallCocks:KINGSTON/ARK/LUSTER
TECHNICALSPECIFICATIONFOR SANITARY&PLUMBINGWORKS:
(A) Sanitaryware& allied fittings
1. General:
AllSanitaryfixturesand their alliedfittings should beoffirst quality.These shouldbeapprovedbythe Engineer-in-chargeof the Division beforeuse.
2. SquattingPan,W.CPan-EuropianCommodetype:
The water closet shall be of vitreous China of specified size and pattern, with an

Internalflusihingrim.It shall have the flushing inlet at the back. The water closet should be of approved quality confirmingtoI.S.S.-2656.TheWaterClosetshallbefittedonfloorinaworkmanshiplikemanner.Thecloset

shall be fixed on a proper cement concrete baseof 1:3:6 proportions, taking care that the cushion isuniform and even without closet to receive the specified thickness of the floor finishing. The jointbetweenthe Closetand the 'P'trap shallbeleak proof.

3. FlushingCistern

The flushing of the commode shall be done by low-level PVC flushing cistern of approved brand andquality,I.S.I.marked and capacityas specified.

The connection between the cistern and water closet shall be made by 32mm dia PVC flush pipe, asspecified in the Price Bid. The capacity of the cistern should be 10Lts.for low-level cisterns. The32mm dia Flush Pipe shall be connected to the Water Closet by means of approved type joint. Theinlet connection to the Cistern shall be made with 600 mm to 450 mm long 15 mm dia PVC Heavytypeconnection pipe.

4. WashHandBasin

The Wash Hand Basin shall be of the White Vitreous China of approved quality, make& brand, I.S.I.marked. It shall be one-piece construction with an integral combined overflow. The fixtures of thebasin shall be as specified. Each basin shall be provided with one 15mm dia C.P. Brass Pillar Tap,32mm dia C.P. Waste, C.P. Chain and Rubber Plug, Unions, Joints, complete inall respects ofapproved quality. Te Basin shall be supported on a pair of M.S. or C.I. Cantilever brackets (built intype) embedded and fixed in wall with cement concrete, 1:2:4. These brackets shall be painted to therequired shade with two coats of approved synthetic enamel paint over a coat of priming. The waste oftheBasinshalldischargeinafloortraporChannelthroughbottletrapsasspecified.One32mmdia

C.P. Bottle Trap is to be fixed to the Waste of the Basin & the outlet of the bottle trap is to beconnected to the waste pipe to dischargethe waste to the Pipe, to discharge the waste to the aforesaidfloor trap. The inlet connection to the Basin shall be made with 450mm long 15 mm dia Heavy typeP.V.C.connectionpipe.

5. KitchenSink:

Unless otherwise mentioned, the Kitchen Sink and drain board (if used) shall be of Stainless Steel ofapproved quality, make and brand, confirming to I.S.I. It shall be of one piece construction withintegralcombinedoverflow.ThesizeofthesinkandDrainBoardshallbeasspecified.EachSinkshallbepr ovidedwithone15mmdiaC.P.BibCock,longbody,40mmC.P.Wastewithoverflow

C.P. China & Rubber Plug, unions etc., complete in all respects as specified and of approved quality.The sink shall be supported on a pair of M.S. or C.I. Cantilever Brackets (Built in type) embedded orfixed in position in the wall by Cement Concrete 1:2:4. The brackets shall be painted to required shadewith two coats of approved synthetic enamel paint over a coat of priming. The waste should dischargeinto a floor Trap or Channel. The waste pipe should be 40 mm dia P.V.C. Pipe jointed to the waste ofthe Sink with aBrassunionnut.

6. StandingUrinals

The Urinals shall be flat pattern lipped front basin of required dimension of White Vitreous China andonepiece construction with internalflushing box rimof anapproved

make and brand as specified. It shall be fixed in the position by using wooden plug embedded in thewall with screws of proper size. Each Urinal shall be connected to a 40 mm dia PVC Waste Pipe,which shall discharge into a channel of floor trap. The lip of Urinals shall be kept at 525 mm fromfloorlevel, whilefixing the Urinalon wall.

(B) SoilandWastepipesandfittings

1. H.C.I.PipeFittings

The cast iron Soil, Waste and design pipes (spigot & socket joints) shall be of make and brand asspecified (under specification of materials), confirming to I.S.s. 3989-1970 and ISI marked withapproved clamps are to be used. The pipes and fittings shall be free from cracks, laps, pinholes, andotherimperfection and carefullycited.

The access door fittings shall be designed and made so as to avoid dead space in which filth mayaccumulate and door shall be provide with 3mm thick rubber insertion packing when closed andbolted.

WEIGHTOFHCIPIPES

2. DiaofPipeinmmThickness in mmLengthofPippe&width piece50 mm 5mm 16.00 kg. 15.00 kg;75 mm 5 mm 13.83 kg. 16.52 kg;100mm8mm24.00 kg. 22.00kg;150 mm8mm26.70 kg. 31.82kg

3. Requirement of Gasket and cement for jointing H.C.I. Pipes (Each Joint)Dia ofpipe inmmGasketinKg. Cement Kg(sameforlead &cementjoint)100 0.13 kg0.12kg;50 0.06kg 0.06kg

1. The inside of the pipes and fittings shall be well coated with special tar or bitumen solution ofapproved quality. Where the pipe and fittings are laid below the ground, the outer surface of the pipesand fittings shall also to be painted with two coats of black anticorrosive paint of approved quality. Oncompletion of the work, the exposed pipes and fittings are to be painted with two coats of syntheticenamel paint of approved colour and quality over a coat of red oxide primer.The cost of paint shouldincludein the rates.

2. Soilpipes forventilation is tobeconnectedtothe sewer at its floorand without atrap and becarried to such a height, at least above roof level, to prevent damage to health by commission of foulair.Thepipe shallterminateas open andprotectedbya cowl.

3. Thewaste waterpipeshallbeconnectedwiththenearestyardgulley.

4. Thetrapsshouldbeofhardcast iron andshould havea water sealatleast 50mmdeep.

5. Allthesoilandwastepipesandfittings,afterlaidandfixedshallbesmoketested,totheentire,satisfaction of the Engineer-in-charge. The Cost of testing is to be included in the offer. Forsmoke-test the materials usually burat greases cotton waste, which gives out a clear pungent smoke,which is easily detected by sight and small. Smoke shall be pumped to the drains from the lower endfroma smoke machine, which consists oflower, andburner.

(C) WaterSupplyPipesandFittings:

1. Materials

All galvanized Iron Pipes are to be mild steel continuous welded, screwed tubes,mediumqualityconfirming to I.S.S. and bearing ISI Marks manufactured by reputed Firms and approved brands asspecified.Thepipes shallconfirmtoLS.1239(Part-I)-1975.

AllG.I.Fittingsshallbeof'IS'marked.

2. LayingofPipes

The layout of the mains and service pipe set etc. will be done in accordance with the drawings. Thecontractor is to mark out the exact position of the pipes and fittings at site and take approval of theEngineer-in-charge,beforetaking up thework.

Where the pipes are laid, underground these must not be laid less than 450mm below ground level andcoated with one coat of approved black bituminous paint. For laying the G.I. pipes and fittings belowground level, the width and the depth of the trenches for different dimensions for the pipes shall begiven asbelow:

DiaofPipe Width of Trench Depth of Trench15mmto 50 mm 300 mm 600mm
65mmto 100mm 450 mm 750mm

The pipes shall be laid on a layer of 75 mm thick sand and filled up with sand upto 75mm above pipesand the remaining portion of the trench shall then be filled up with proper ramming as described in"Excavation and refilling". The surplus earth shall be disposed of as directed.Thrust or anchor blocksof cement concrete 1:2:4 in hard granite chips shall be constructed on all bends or branches to transmitthe hydraulic pressure without impairing the ground and spreading it over a sufficient area. Pipes shallnot be laid to pass through manholes, catch pit, drain, where, it is unavoidable the pipes shall becarriedin sleeve pipe ofM.S.G.I. asapproved bytheEngineer-in-charge.

3. Where Pipes run along walls, the same are to be fixed to the wall with holder bat clamps mshookesas below.

in mm15 20 253240 50
Horizontalline2m2.50m2.50m2.50m3m3mVertica
lline2.5m3m3m3m3.5m3.5m

WherethepipesarepassingthroughtheR.C.C./Masonrywall/Column/beamorpillars,thesemustpassthroug h theappropriate highersizesof C.I/G.I./SleevePipes.

In case the pipes are embedded in walls and floors it should be painted with one coat of anticorrosivepaintofapproved quality.
All pipes should be fixed horizontal and vertical. For taking the pipes through the walls and floors &roof slabs etc. the holes shall be made by filling with chisels or jumper and not by dismantling thebrickwork or concrete. After fixing, the holes shall be made good with cement concrete 1:2:4 andproperlyfinished with cementplaster1:4 to match the adjacent surface.
Union Nuts are to be provided in each of the vertical riser or drop on and from G.I.Tank and near theValve and as and where necessary. The long screw fittings may be provided for 3 mtrs long horizontallinesandinsidethelavatory/ Kitchen etc.
4. After laying and jointing the pipes and fittings shall be inspected under working condition ofpressure and flow. Any joint found leaking pipes should be removed and replaced without extra cost.The pipesand fittingsafter theyarelaid shallbe tested tohydraulicpressureof 6 Kg/Cm2.
The testpressure shouldmaintain withoutlossofforatleasthalf an hour.
5. Painting
On completion of the test, the exposed pipes and fittings are to be painted with two coats of syntheticenamelpaintofapprovedcolour and brand overacoatofpriming.
6. Measurement
The length shall be measured in running meter. Correct to centimetre for the finished work, whichshall included the pipes and fittings such as Bends, Tees, Elbows, etc., but excludes brass or Gun-metalfixture like tap, Cooks,Valves,PVCconnectionpipesetc.
7. BallValve
Theballvalveshallbehighorlowpressureclassasstipulatedinthe PriceBidandshallconfirmto I.S.1703-1968.Thenominalsizeofballvalveshallbethatcorrespondingtothesizeof Pipeforwhichit isused.TheBall valveshallbe of brassorgun-metal andthefloat forlow pressurepolyethylene and for high pressure in copper. Each and every ball valve while in closed position shallwithstand and internally applied hydraulic pressure of 20 kg Kg/Cm2 for a minimum period of twominutes without leakage or sweating. Every high pressure ball valve when assemble in workingcondition, with the float immersed to not more than half its volume shall remain closed against a test,pressureof10.5Kg/Cm2andalowpressureballvalveagainstatestpressureof5.3Kg/Cm2.Polyethylene floats shall bewatertight and non-absorbent and shall not contaminatewaterandadhesive jointing parts. The minimum thickness of the copper sheet used for making copper floats shall be of 0.45 mm. Thethicknessof materials ofthe floatshallbeuniformthroughout.
8. Non-returnValve(CheckValves)
The non-return valve shall be Brass or Gunmetal and shall be of horizontal or vertical flow type and ofthe size asspecified andconfirmto I.S. 7810-1959 and I.S. 778-1957.
The approximate weights of the valves are given
below.DiainmmHorizontaltype(inKg)Verticaltype(inKg
)
150.300.25,200.550.25,250.900.75,321.250.90,401.701.20,502.901.45,655.25,.15
80 7.704.10,100125
9. Bibcock &Stopcock
These shall confirm to I.S. 781-1967 and bear ISI Mark. The bibcock is a draw off tap with ahorizontal inlet and free outlet and stopcock is a valve with a suitable means of connection forInsertion in a pipeline for controlling or stopping the flow. This shall be of screw down type. The cockshall open in anti-clockwise direction. The stopcocks should be of C.P. open type/concealed type /angle valves typeasspecified in theBid.Bibcock shouldbealso C.P.Brassbibcock.
10. FullwayValve(Brass)
Fullwayvalve isa valve
withsuitablemeansofconnectionforinsertioninapipelineforcontrollingorsteppingtheflow.T
hevalve shallbe ofbrassfittedwitha cast-ironwheel
andshallbeofgatevalvetypeconfirmingtoI.S.,780-1960,openingFullwayandofthesizeasspecifiedwith ISImark.
DiainmmScrewedEndValve inKg
15 0.567,200.680,251.077,32 1.559,402.268,503.232,65 6.840,806.845,100125.

11. GunMetalFullwayValve

This shall be of the Gun-Metal fitted with wheel and shall be of Gate-Valve type opening full way.ThisshallconfirmtoI.S. 778-1971.Class I. Thevalves shouldbearISIMark.

TECHNICALSPECIFICATIONFOR R.C.C.HUMEPIPEETC.

1. R.C.C. Hume Pipes (Materials):The RCC pipes & fitting should be of NP2. The length ofpipesis 2000 mmexclusiveof the internaldepthof socket.

2. ExcavationofTrenchforlayingSewerPipes:

The trenches for pipes shall be excavated to the lines & level as directed. The bed of the trench shallhave to be evenly dressed throughout from one change of grade to the next. The gradient is to stout bymeans of sight rails and boning rods and required depth be excavated at any point. The depth of thetrench shall not less than one metre, measured from top of the pipe or required to the surface of theground under roads and not less than 0.75 mm elsewhere. The width of the trench shall be the nominaldiameter of the pipe plus 350mm. The bed of the trench if in soft or made upearth.shall be wellwatered and rammed before laying the pipes and the depressions if any shall be property filled withsand and consolidated in 200mm layers. Depending on soil condition, poling may even be necessary ifso desired by the Engineer In-charge. If rock is met with, it shall be removed 150 mm below the levelofthepipeandthetrenchwillberefilledwithsandandconsolidated.Theexcavatedmaterialsshallnotbeplacedwithin oneMtr. orhalfofthe

depth of the trench whichever is greater from the edge of the trench. The trench shall be kept free fromwater. Shoring and shuttering shall be provided wherever required Excavation below water label shallbe doneafterdewatering thetrenches.

3. Layingandjointingofthepipesand fittings.

RCCPipesshallbelaidinstraightlinesandtotheevengradientsasshowninthelayoutdrawings.Thesocketofthepipesshallfacestream.Adequatecareshallbeexercisedinsettingoutanddetermining the level of the pipes and the contractor shall provide suitable instruction, templates, sightrails,boningrodsandotherequipmentsnecessaryforthepurpose.Inthecaseofwithjointstobemade with loose collars, the collars shall be slipped on before the next pipe is laid. In those joints, atight ring of twisted tarred jute soaked in cement mortar filling to ensure proper alignment and preventcemententeringthepipes.Cementsandjointsaretobefinishedwithproportion1:1with450bevelling.

The joints are to be kept wet with wet bag until the same are properly set with. Thecementmortarjointsshallbecuredatleast for7(Seven) days.

The whole of the drain work shall be tested when laid and at the completion of the contract, to thesatisfaction of the Engineer-in-charge and shall be re-tested if necessary until found satisfactory. Thetest shall be made by means of water under pressure at the highest point of the section under test andproviding an air pipe at the lower and of the line. Maximum head of 5(five) feet (1.5m) must bemaintained.

4. Excavationandrefilling.

Excavation for drain and pipe trenches shall be straight and to correct depth and gradient. The trenchbottom shall be of required width as per specification to allow working space for pipe jointing.Excavation materials shall be dumped away from the site as directed by Engineer-in-charge. Suitableprecautions are to be taken to prevent in flow of water in to the excavation area, during construction.The contractor at his own expense shall pump out or otherwise remove any or all water which duringthe continuance of contract may be found in the excavated trenches to keep the trench clear of waterduring the work under progress.The pipe line shall not be refilled and covered, until the linethereinhas beenpassed and tested.

5. BuriedServices.

All pipes, cable mains and other services exposed by the excavations shall be effectively supported bytimberingorothermeans forwhichnoextra paymentwillbeallowed. Thecontractor shall beresponsibleforanydamageoccurringtoburiedservicesandmakegoodthesameathisowncosttothe satisfaction of theEngineerin-charge.

6. Trench condition.:Where a trench is excavated and refilled after laying the pipe, settlementoftheearthintherefilledtrenchtakeplace.Thefillingabovethetopofpipe,settlesrelatively,more

than the sides of the trench, thereby developing frictional resistance. The contractor is required to takespecial precaution against this, while refilling the trenches. Procedure for backfilling as stipulatedearliershould bestrictlyfollowed.

7. InspectionChambers/Manholes.

Ateverychange ofalignment, gradientor diameterof a drain thereshallbeamanholeor InspectionChamber.Themaximumdistancebetweenmanholechambersshallbe10metersforthelinelaid straight oras directed byEngineer-in-charge.

AllmanholeandinspectionchambershallbeconstructedwiththeinternaldimensionasshownindrawingandTenderSchedule. Thedepth of invertshallbe fixed to thegradient.

8. GullyTrap Chamber.

The size ofchamber for 100mmHCIyard gullyshallbeof300mmx300mm(Inside)as per drawing. Foundation with 100mm thick cement concrete 1, 3, 6 with hard granite metal of size40mmfromoutersurfaceofwall and Brick work in cementmortar1:4,125 rnmthick,depth upto600mm maximum.Thefinishingofmasonrywallboth inside and outside should be done in cement mortar 1:4 cement punning should be provided on the inner surfacethe trap should be buried in cement concrete 1:2:4 in H.G chips up to the mouth and one hinged C.I.Grating of size 300mm x 300mm are to be fixed on the top of mouth of Gully trap to arrest rubbishesshallbeprovided. The foundation, should project75mmforouter.

SAFETYMEASURES

1. Thecontractorshouldbarricadeallopeningsnearhisworkplaceproperly.
2. The contractor should use sand materials for staging shuttering work. It should be strong enough totake the load. If staging shuttering work are to be executed on filled up area, due care should be takentosee thatthefilled up earth/sand areproperlyrammed.
3. The contractor should provide temporally hand rails to all staircases for use by the workers andsupervisingofficers.
4. The temporary staircases made during centering should be strong enough for movement of workerswithmaterials.
5. During de-shuttering operation, suitable step should be taken so that the centering materials will notfall.
6. Allexternalandinternalscaffoldingworksforplastering,paintingetc.aretobedoneproperly.Safetybelts should be used bythe workerswhileworking.
7. Anyother safetymeasures thatmaybe requiredduringconstruction should also be taken in additionto theabove.
8. ThecontractorshouldhaveoneFirstAidBoxatthesite toprovidefirstaidtotheworkers.
9. Suitable care should be taken for any fire during execution of the work either from direct fire orfromelectric fire.
10. Suitablelightingarrangementsshouldbeduringexecutionofthework.
11. Therodandothermaterialsshouldbeproperlykeptsothattheydonotinterfereinexecutionofthework
12. The contractorshallnotkeepanylabourinsidethe incomplete buildingduringtheconstruction.
13. Temporary electric lines should be properly drawn and all labour should be instructed to be verycarefulwhileusing the same.
14. Safetyhelmets shouldbe usedbythe workersand supervisorsduring execution ofthework.

Part-III:TECHNICALSPECIFICATIONOFELECTRICALINSTALLATIONWORK:

I. TECHNICAL

1. GeneralRequirements:

The installationshallgenerallybecarriedoutinconformitywith therequirementsof Indian Electricity Act, 1910 as amended up to date and the Indian Electricity rules,1956 framedhereunder, the relevant regulations of the electricity Electric supply authority concerned, and also withthe specifications laid down in the Indian Standard ISS 732-1963, code of practice (Revised) forElectrical Wiring Installation (system voltage not exceeding 650 volts) and I.S.S. 2309-1969, code ofpresencefor protection of Buildingsand allied Structureagainstlighting.

2. Materials

Allmaterial,fittings,appliances,usedintheelectricalinstallation,shallconfirmtothe Indian Standard Specification wherever these exist. A list of approved materials is attached afterwards. Materials not included in the list shall be got approved by Architect / Engineer-in-charge, priorto actualuse.

3. InstallationofPanelBoardsandcable connection

All cables shall be connected to a terminal only by soldered/ crimped lugs / cables sockets /bottlesockets unless the terminals are of such a form that they can be securely clamped without cutting awayof cable stands. Where two or more B.D.B is feeding low voltage circuits are fed from different phaseof a medium voltage supply, these B.D.B.'s shall be at least two meters apart. All three phase powerdistribution board shall be properly earthed with two numbers, No. 0 S.W.G., and G.I. wire andprovided with suitable Danger Board. All B.D.B.'s shall be properly earthed with one no of No. 6S.W.G.,G.I. Wire.

4. Switches:Allswitches forlights,fanandplugpointshallbemodular/flushtypeswitchandsocketin variouspoints andelectronic regulator typeunlessotherwisespecified.

5. Cablesandconductors

AllcableshouldconfirmtorelevantIndianStandardSpecificationconductorofallcablesshallbeeithercopper oraluminiumas specified in thePriceBid.

Allwiresandcablesshallbe PVCinsulatedandunsheathedunlessspecifiedotherwise.

6. Conductorofflexiblecablesshallbeofcopper.Theminimumsizeofcoreacceptableis 1.00mm2(15/0.3mm).Themaximumweighttowhichthefollowingtwinflexiblecordsmaybesubjectedto, are asfollows :Twin 15/0.3:1.5Kg

7. InstallationofMainSwitchBoard,B.D.B.'sMain,sub-mains,Distributionwiring to Individual Points.The exact position of all main switch board, B.D.B.'s and all runs of mains andsubmains,and distribution wiring to individual point including the exact position of all light fitting andswitch board shall be first marked on the buildings and shall be approved by the Engineer-in-chargebeforeactualcommencementofwork. Thedistributionboardshallgenerallybeinstalledataheightof 2.13Mtrs.(7feet)fromthefinishedfloorlevel.

8. Installationofswitchboard

Theseshallbeinstalledataheightof1.3mtrs(4'3")above thefinishedfloorlevel.

9. Installationofceiling Fans:

Unless otherwise specified all ceiling fans shall be hung not less than 2.75 mtrs (9'-0") above floor thesuspensionrodandclamp shallbepaintedwith approvedpaintwithout involvingextra cost

10. Installation of Fluorescent light fittings/T5 type fittings Where these are suspended fromceiling by two down rods each fixing to the ceiling shall be capable of sustaining at least 1.1 kg ofdead weight.

Thedownrodsandaccessoriesshallbepaintedwithapprovedpaintwithoutinvolvingextracost.Unless otherwise specified these should be suspended t a height of not less than 2.60mtrs. (8'-6")abovethefinished floorlevel.

11. InstallationofExhaustFan

Exhaust Fan shall be fitted by means of rag bolts embedded in the wall. The required holes in the wallshallbe made andfinished nearlywith cementplaster andbrought totheoriginalfinishof thewall.

12. InstallationofSocketOutlet

No socket outlet shall be provided in the bath room at a height less than 1.3 mtrs (4'-3") from finishedfloorlevel.No switches shall be provided inthebathroom.Socket outlet at otherlocationsthanbathroomshall be either 30 cm(2'-0") or130 cm(4'-3")fromfinished floor level.

13. Makinggoodofdamagerstowallsurfaces

Any damages to wall surface viz. plastering, colour washing, distempering, cement painting etc. shallbemade good to theoriginalfinish bythe contractoratno extra cost.

14. Looping-in-system

Distribution wiring in conduit to light, fan, plug point etc. shall be done in looping in system. In thissystem no joints or connections shall be made anywhere of the system except at terminating pointssuchastheterminalsofswitches,ceilingrosesetc.andincaseofsocketoutletsatthesocket

terminals.AlltheNeutralsshallbejoinedinthejunctionboxonlywiththehelpofneutralconnectorof63Amps. rating.

15. Earthingcontinuitywires

Insulated earth copper wire shall run inside the conduit throughout the installation and the earthterminalsofthe socketoutlets, lightfittings etc. shallbeproperlyearthed.

16. TestingofInstallation

Before and completed installation or an addition to an existing installation is put into service, thefollowingtests shallbecarriedoutbythe electricalcontractorin presenceoftheEngineer-in-charge

a) Polarity of Switches :It must be ensured by test that all single pole switches have been fitted on theliveside of the circuits theycontrol.

b) Insulationtest.

i) By applying a 500 voltmagger between earth and the whole system of conductors or any sectionthereof with all fuses in place and all switches closed, all lamp in position or both poles of installationotherwise electrically connected together. The result shall not be less than 50 divided y the number ofpointson the circuitandneednotbemorethan 11megaohm.

ii) Between all conductors connected to one phase and all conductors connected to the neutral or to theother phase conductors of the supply after removing all metallic connections between the two poles ofthe installation and switching on all switches, the insulation resistance shall be as in (I) above. c) Theearth continuity conductor including metal conduits and metal sheathes of cables in all cases shall betested for electrical continuity. Electrical resistance of the above along with the earthing lead butexcluding any resistance of earth leakage circuit breaker, measured from the connection with earthelectrodeto anypointin the earth continuityconductor inthe completed installation shall

not exceed one ohm. d) Earth resistance test To ensure effectiveness of installation Earth, the value ofearthresistanceshallbewithin4ohmforinstallationcapacityupto5Kwand1ohmforinstallationofhigher capacity.

17. To complete work will be taken over only if the results obtained in above tests are withinthe limits mentioned above, and in accordance with I.E. Rules. On completion of the installation work,acertificateshallbe furnished bythe contractor, countersigned by

the certifiedsupervisorunderwhosedirectsupervisions ofinstallationwascarriedout.

ThiscertificateshallbeinaprescribedformasrequiredbythelocalElectricSupplyAuthority.

18. SpecialSpecifications

a) All switches, fittings etc. should be produced before Engineer-in-charge and got approved beforefixingand mustbe I.S.Imark and properlyearthed.

b) Before any portion of conduit work for wiring is taken over in hand, a neat proper layout should bemade out by the contractor and got approved from the Engineer-in-charge, for this purpose contractorisadvised to getacquaintedwith the layout drawing.

c) While laying the conduits for concealed wiring in the ceiling or in the beams and columns andbefore casting the contractor must ensure that all the inlets and both ends of the conduits are pluggedbymeansof dead end sockets sothatanyforeignmatter cannotenterthe conduit andchoke them.

d) Damage to any fitting during erection and before handing over the installation by the contractorshallbesetrightorreplacebythe contractor athis owncost.

e) Caution Board of proper size wherever required shall be provided as per I.E. rules for which noextrapaymentwillbe admissible.

f) Any repairs to wall etc. should match with the surrounding surface otherwise same will be got donethrough otheragencyatthe cost ofthe contractor.

g) Earthing shall be done in the presence of the Engineer-in-charge or his authorized representative.i)The installation shouldnotbe carried withoutearthing.

19. MakingofChase /Groove in wallforlayingconduit pipe

The chase/groove in the wall shall be neatly made and be of sample dimensions to permit the conduitto be fixed in the manner desired, size of chase/groove for 25mm bore conduit is to be 40mm x 40mmplastercover attop shallbeatleast 3/8".

20. FixingofconduitinChase/Groove:

For recessed conduit wiring system the conduit shall be placed in the ceiling/ columns etc. before thecasting of the slab or column. The conduit pipes shall be properly position and fixed so that it will notbe displaced at the time of concreting. The junction boxes provided shall be so arranged that its coverwill be flushed withthefinishedsurface ofthe ceiling or column.For placingtheconduitsinthewalls, chases of ample dimension shall be made neatly to fix the conduit in a desired manner. Theconduit pipe shall be fixed by means of staple or saddles not more than 600 mm apart. Fixing ofstandard bends or elbows shall be avoided and all curves maintained by bending the conduit itself witha long radius will permit easy drawing of the conductors. Suitable inspection boxes shall be providedto permit periodical inspection and removal or replacement of wires if necessary. There shall bemountedflush withthe wallwith holesin thecover ofthe box.

The switch or regulator box shall be made of metal on all sides except on the front where backlightsheet or Perspex cover painted to match the colours of the wall shall be used I case of surface wiringsystem. For recessed wiring system, these boxes shall be made flush with the conduit of each conduitor section shall be completed before conductors are drawn in. The entire system of conduit afterinstallation shall be tested or mechanical strength and electrical continuity throughout the earthing ofthe entire installationshall be carriedoutin accordancewithI.E. Rulesand standards.

The number of wires drawn in the conduits shall not exceed the numbers those specified in IndianstandardspecificationNo. 732.

21. Inspectionboxes/Switchboxes:

Suitable inspection boxes shall be provided when necessary to perform periodical inspection and tofacilitate removal of wires. These shall be mounted flush with the wall/ceiling. For longer runs ofconduitinvolvingmorethanonebend,one inspectionbox/draw-in-boxshallbeusedafteronebend.

All ceiling outlets shall be terminated in a round C.I. circular box to suit standard size ceiling roseand/or rectangular M.S. junction box as the case may be. Use of junction boxes shall be madewherever possible to avoid looping inside switch board. All switch board / junction board shall be ofconcealed Galvanized steel sheet of make CPL / PRECISION /ELLORA of size 75mm x 75mm or75mmx 126.6 mmor of anyother size to suitthe plate and shallbeminimum50 mmdeep.

22. All outlets such as angle batten holder, ceiling rose etc. shall be flush mounting type withcast iron or M.S. boxes with a cover of 3 mm thick Bakelite of white colour of HYLAM/FORMICmakeandshallbe3½”indiameter.Theceilingroseortheanglebattenholdershallbemount edontheBakelitecover. All the switchboxes, junctionboxes,circular boxes etc. shall be efficientlyeartheredbymeansof running earth wirerunning insidethe conduit.

23. CABLEINSTALLATIONS

All P.V.C. insulated and armoured cables to be used shall confirm to I.S. 1554 Part-I/ 1964 (asamended up-to date) and should be of 650/1100 Volt grade. Old and usedcables must not be used forinstallation.Onlyone make ofcableshallbeused. Allcablesbroughtto the site mustbetested andgotapprovedbytheEngineer-in-charge,beforethesecanbelaid.Thecablesshallbedispatchedtothesite on wooden drums with ends sealed. Exact length shall be determined by the contractor aftermeasurementatsite.

a)LayingofCable:(i)Directinthe ground

Trenches shall be 2’-6” deep (minimum) from ground level and trenching work shall include allpumpingandboilingoutwater.Thesetrenchesshallbewideenoughtoaccommodate&thecablesthat are being laid in the same trench with spacing in between as per specification given below. Whenmore than one multicore cable is to be laid in the same trench, a minimum horizontal inter axialspacing between cable shall not be less than 10”. After excavation of the trench of the proper size, thebottom of the trench shall be dressed and levelled and filled with a 3” layer of fine sand. The cableshall then be laid with bricks on both sides of cable continuously. After having the space within thebricks, filled and packed up to a level of 3” above the top of cable with fine sand, the top layer ofbricks shall be placed side by side in continuous series as protective cover. Total no. of bricks requiredbeing 16 per meter run. The reminder of the trench shall be filled with riddled soil, well rammed andwatered to a level of 3” above surrounding ground level; the ground level surface of the whole trenchshallberestored properlyafter completion of cable laying.

(ii) Insidethebuildingonwalls:Cables shall belaidonwalls/ceiling/structure,unlessspecifiedotherwise, with M.S. Brackets and suitable clamps or over claw type aluminium cleat fixed on M.S.bracketsspacednotmorethan1'-
6"apart.Boltsofsuitablesizestobegroutedonthewallproperlyforfixingthebrackets.
(iii) Minimum bendingradiuspermissibleis120cm,forPVCarmouredcables.Atjointsandterminals the individual core of multicore cable should never be bent so that radius is less than 12timesthe diameteroverthe insulation. b) CableJoints
All cable joints shall be carried out by experienced and licensed jointers under strict supervision.Electroplated brass cable glands. Copper cable socket and approved jointing materials must be used.The price for cable jointing and finishing the ends of the cables shall include all materials and shallalso provide for tools and plants for work. The cable armouring is to be properly terminated. All cableaccessories and other associated materials shall confirm to Indian Standard Specification whereverapplicable.
(b) Testingofcab:Beforethecompletedinstallationisputintoserviceorhandedovertoemployer,the
installation is to be tested with a 1000 volt Insulation Tester to the satisfaction of the Engineer-in-charge. The completed work will be taken over only if the results are acceptable to the Engineer-in-charge.

24. EarthingInstallation:The installation shall generally confirm to I.S. 3043/1966 (IndianStandardcodeofpractice for Earthing as amendedup to date)
(a) EarthingElectrode:Theearthing electrode shall be galvanised pipe of class B Medium quality of 40mmdiameterboreandnotlessthan3.0mtrs(10'-0")long.Thepipeshallhave12mmdiameterholesat 15 cm centre to centre up to a height of 2.5 meters from the bottomend and one nos of 12 mmdiameterhole atthetop formaking connection ofthe earthcontinuitywire ofG.I. ofNo.6 S.W.G.
(b) EarthpitforinstallationofEarthElectrode:Theearthpitshallbeatleast3.0metersor10feetand
0.6 mtrs x 0.6 mts (2'-0" x 2'-0")in size. The earth electrode shall be placed in middle of the earth pitand the earth pit shall be filled with an alternative layer of 105 mm charcoal and 50 mm salt up to adepth of 465 mm and the rest shall be filled with charcoal to a further depth of 2035 mm and thebalanceshallbe filled withriddledearth dulyrammedandwateredup totheoriginalground level.
(c) Earth continuity wire:Earth continuity wire of No. 6 S.W.G of G.I. shall be properly secured to thetop of the earth electrode with the help of G.I. nuts and bolts and shall run up to the G.I. earth bus orshallconnected to theMainSwitch panelboardasthe case maybe.
(d) Location of Earth Electrode:Electrodes shall be buried at least 2.00 mtrs (6'-6") away for thebuilding or subject which is to be earthed. However earthing Electrodes where installed in parallelshall not be placed less than 2.0 mtrs (6-6"" apart and preferably placed at distance greater than twicetheirlengths. Electrodesshallnotbe located in entrances,pavementand roadways.
(e) Earth Bus-bar:The Bus bar shall be galvanised M.S. flat and shall be of size 40mm x 5mm, heavilygalvanised and having adequate number of drilled and taped holes 30 cm apart, complete with G.I.bolts, nut washers for securely connecting the earth lead and earth continuity conductors. The bus barshall be fixed on wall having clearance of 3" from wall with spacing insulator with at least twonumbersof 13 mmG.I. rag bolts spaced about0.5 metersapart.
(f) Incaseofinstallationswheretheloaddoesnotexceed5K.W.theresistancetotheearthshallonno account exceed 5 ohms where the load exceed 5 K.W. the resistance shall not exceed 1 ohm. Forsubstationthe valueis 1 ohm.

25. Specificationforpolythenepipeforconduct:
Only25mmouterdiameterpolythenepipe/PVCcasingandcappingwithdoublelockpipeconfirming to I.s. No. 6946/7 is to be used. Wires for more than one point may be drawn in the samepipe subjectto dueclearances insidethe pipe.

26. LC.Installation/EarthingLightning&SurgeProtectionSystems:SP
ECIFICATION:
The Installation shallconfirmtoI.S. 2309/1969asamended uptodate.

(a) CONSTRUCTION OF L.C. SYSTEM: It shall be well galvanized No. 4 SWG G.I. Wire(Galvanizing confirming to B.S. 728/1961) unless specified otherwise.The conductor shall be wellannealedand flexible.

(b) AIRTERMINAL:Fiveprongedairterminals,constructedoffourpiecesofNo.4SWG G.I. Wire each 10" long, bound and soldered to the down conductor 9"from the top and bend slightlyoutward, and stiffened with a 5'-0" (1.5 mts) long, 15 mm class B, medium quality galvanised steeltubehavingascrewedgalvanisedM.S.flange3"diaatbottomandforgroutingin,shallbeusedunlessother wise specified.Minimumnumberofairterminalsis two.

(c) CONDUCTOR ON PARAPET: The conductor shall be coursed along the ridges,parapetedges of the flat roof, over flat roof where necessary in such a way as to joint each air terminal to therest.The conductors shallbefixedsecurelywithgalvanised ironstaples40 mm(3/2")long andspacednotmorethan 4'-0"(1.3 mts)apart.

(d) VERTICAL DOWN CONDUCTOR: These conductors, direct from the termination, shallbe connected to the parapet conductor or air terminals and shall be coursed through shortest possibleroute without abrupt turns or kinks.While passing through corners, these shall pass through G.I. pipe(Class B) having adequate bore. These conductors shall be fixed securely with galvanised iron staples40mm(3/2") long and spaced notmorethan 3'-0"(1.00mtrs)apart.

(e) PROTECTION AGAINST DAMAGE AND CORROSION: No upturns are permitted andany bend necessary shall have a permissible radius. The end of G.I. pipe protection on wall shall beproperlysealed with bitumencompound topreventcorrosion.

(f) METALLIC OBJECTNEARCONDUCTORS:Theconductorsshallbesolaid as to maintain a separation distance exceeding 2 mtrs (6'-6") between (a) any electric conductorsrunninginparallel(b)metallicobjects,viz.Irongirders,watertanks,andironstaircasewater/gaspip es inside or by the side of the building. All the external metallic objects viz. Water tanks gutters,rain water down pipes, water mains, etc. shall be bonded to the nearest conductor by means of a shorttail.

(g) JOINTS AND BENDS: All joint in the conductor shall be made after cleaning and tinningthe ends of conductors to be joined binding them together for about 100 mm with no. 12 SWG G.I.wireandthensoldering.Bendingshallbeasshortaspossible.Alljointsandbendsaretobemechanicallyand electricallysound.

(h) EARTH STATIONS: Similar to installation earth as specified elsewhere.Minimumnumberof earth station is two.

(i) INSTALLATIONTEST:AftercompletionofworktheohmicresistanceofL.C.Installation complete with air terminals (without earth connections) shall be measured from thehighest point and this shall be a fraction of one ohm. The resistance to earth ofindividual earthstations shall be tested by earth testing merger and must not exceed 10 ohms. The above test shall bemadein thepresenceoftheelectricalEngineer-in-chargeandthe resultrecorded.

27. Completion drawing The contractor shall be required to submit within two months fromthe date of completion of work,undernoted drawingsontracing cloth.

(a) Plan (As per structural drawing) of each floor (scale not less than 5'-0"=1'-0" or 1:100 metricscale) showing position of points such as light point fan point, wall sockets etc.together with type offixture and fittings circuit with phase identification mark and location of switches B.D.B. with numberof ways position of earthining stations for light and power. Position of lighting conductor, earthingstationand route of runningconductor.

(b) The information of plans (a) Name of work with job nature accepted Bid number (b)date ofcompletion,(c) Name ofthe place,(d)Name andsignature ofthe contractor, (e)Scaleofdrawing.

(c) Schemetic line layout diagram of each floor showing (I) layout and connection of main and sub-board B.D.B. having description of the site, capacity, type and Tender number supply system andsourceofsupply,(ii)locationsize,type,lengthofmainandsubmaincables,(iii)locationofeach B.D.B.indicatingthepasses,departmentalmarkoneachB.D.B.andswitchgear.Thedrawingshallbe very neatly drawn and submitted properly without holding them.(d) Cable route should be markedonsiteplan with measurementfrompermanentstructure.

(e) Single line diagram showing of the details of the power line distribution system in the buildingindicating the rating of main distribution box sub-distribution box, sizes of cable from control room toindividualflats, rating of themain switch gearsetc.

28. Fabricationofpanelboard

The drawing of the panel board indicating of the dimension of the panel board and the detail positionof the various equipment and the electrical line diagram shall be submitted to the concerned Engineer-in-
chargeandgotapprovedbeforefabricationofthepanelboard.Anypanelboardfabricatedassembled without approving the drawing by the concerned Engineer-in-charge is liable for rejectionandnocompensation for thesameshallbepaid extra.

SPECIALCONDITIONSFORINTERNAL/EXTERNALELECTRIFICATION.

(1) The Installation shall generally be carried out in conformity with the requirement ofIndian Electricity Act 2003 as amended up to date and the Indian Electricity Rules,1956 framed thereunder,therelevantregulationsoftheElectricSupplyAuthorityconcernedandalsowiththespecificationl aiddownintheIndianStandardSpecificationandR.E.C.SpecificationandConstructionStandardforElectric alInstallationforExternalElectrification(systemVoltagenotexceeding440 volts) .

(2) All materials, fittings, appliances etc. used in the External Electrical Installation shallconfirm to relevant Indian Standard Specification / R.E.C. Specification and construction standardwherever these exists. All the material used shall be got approved by the concerned Engineer-in-chargepriortoactualuse.Thenecessary completioncertificateintheprescribedform shallbefurnishedbythe contractor on completion of the work.

(3). After installation of the wiring the Bidder / Electrical Contractor should test the same inpresence of the Electrical Engineer-in-charge for safety and durability as per its pecification and I.E.Rules in force. He shall also get the Electrical Installation Inspected by the Electrical Inspector, Govt.of Orissa or his authorised representative and obtain be necessary inspection report and clearance toenergisebyinstallationathisowncost.Noextrapaymentwhatsoeveron thisaccountwillbe payable.

4. Only material of the approved make as per the list enclosed shall be used. All the materialbefore installation shall be checked and approved by the Electrical Engineer-in-charge. Ifnecessarythe materials may be sent for testing to any testing laboratory inside or outside the state for confirmingthe quality and specification as per the Price . The cost towards testinghas to be borne by the Bidder,andthesame shallbededucted fromhis bill.

5. The work shall be carried out in accordance with the Price complete with cost of allmaterial(except otherwise mentioned and labour with T & P, sundries and accessories and all ElectricConnectionsas requiredfor the workasperdrawing anddesignanddirection of Engineer-in-charge.

6. The Electrical Installation work shall be carried out under the supervision of registeredElectrical Contractor and Licensed Electrical Supervisor duly authorized by the 'Electrical LicensingBoard, Govt. of Orissa' to carry out Electrical Installation work to domestic andIndustrialInstallationup to 650 volts. The copy of the valid Licence of the Electrical Contractor as above shall be submittedalong with the Bid paper. Also a letter of consent from the Electrical Contractor in written to the effectthat he will supervise the Electrical Installation Work and furnish the necessary test certificates dulysignedbytheElectricalContractorshould befurnished.

LIST OFAPPROVED MAKE OFTHEELECTRICALITEMTOBEUSED

Sl. No Description of Item
MakeELECTRICALMAKELIS
T
1P.V.C.boxesofappropriate size forfixingPlate, switchesand Blanking plates
etc.:LEGRAND/SCHNEIDER/MK
2 CeilingRose,AnglebattenHolderwithISImark:ANCHOR/CONA
3 5 Amps/250 Volts Modular/Flushtype switch 2/3 Pin wall socket,Electronic FanRegulator,15Amps/250VoltsSwitches,Sockets,T.V./TelephoneSocketetc.ofISImark:
ANCHOR/CONA/(For Flush Type)
MK-LEGRAND(Miries)/SCHNIDER(Zencelo)FORMODULARTYPE
4.FRLSSingecoreP.V.C.insulatedandUnsheathedCopperconductorof650/1100Voltgrade3
Confirming to IS:694/1977 of various sizes for
wiring:FINOLEX/HAVELLS/POLYCAB/VGUARD/KEI

5.D.BandB.D.B:Legrand(EKINDXE-
3),Siemen(Betaground)Schneider(Acti9),L&T(AU)6Earthing
pipeofMediumQuality"Class-B":TATA/JINDAL

7Instrument,Meters(Voltmeter,Ammeter,etc.):L&T/SCHNEIDER/LEGRAND
8.20/25MMOuterdiameter,P.V.C.Casingandcappingpipe:ANCHOR/POLYCAB/AKG9L
ED(Bulb&Tubelight):PHILIPS/CROMPTON/HAVELLS/Bajaj)
10 Aviatonlight:PASOLITE,CROMPTON/PHILIPS/HAVELLS
11 EPABXSYSTEM:MATRIX/ACCORD/NEC
12 M.C.C.B.ofvariousrating:L&T/CROMPTON/HAVELLS/LEGRAND/SIEMENS
13 MAINSWITCH:AVELLS/L&T/SIEMENS
14 M.C.C.B.ofvariousrating:Legrand(DPX3),Siemens(3v4)Schneider(NSX),L&T-
Dsine(MTX3.0)15.EarthingLightning&SurgeProtectionSystems:ABB/STORMKING/POWERTRAC
16. Fan/ExFan:USHA/CROMPTON/HAVELLS/ALMONARD
17. AIRCIRCUITBREAKER:LEGRAND/MK/SCHNEIDER(MasterPactNW)L&T-
UPower(MTX3.5)Siemens(3VL)
18MCB/RCCB/RCBO-Legrand-DX3,Siemens-Betaguard,Schneider-Auti9,L&T-
AU19Cable-PolyCab/Havells/KEI/Vguard
20 TelephoneHandSet:Beetel/Binatone
21 ChemicalEarthing:ABB/Star-X/Universal
Note:Whereeverthe makeofthematerialhas notbeenmentioned eitherin the abovelist or the schedule of material shall conform to the relevant IS specification and suchmaterial should be approved by the concerned Engineer-in-charge before the same isutilizedin the work

COD ES:

Codesshallmeanthefollowingincludingthelatestascendantsand/orreplacementifany.
a) IndianElectricityAct,1923 andRulesandRegulationsmadethere under
b) TheminimumwagesAct,c)TheWomen'sCompensation Act
d)ThePaymentofWagesAct,e)TheFatalAccidentAct,f)TheIndustrialEmploymentAct.,g)TheEmploymentprovidentFund Act,h)A.S.M.E. TestCodes
i)AIRETest,Codes,j)AmericanSocietyofMaterialsTesting Codes
k) StandardsoftheIndianStandardsInstitution,
1) LowTension CircuitBreakers:IS2516-1955PartISec.1
2) SwitchgearBusBarsIS375-1963,3)HRCfuselinksIS2208-1962
4) Distributionfuse boardsIS2675-1966
5) EnclosureforLowVoltageswitchgearIS214701962,6)PVCCablesIS1554-1975
7) TabularfluorescentlampsforCamerallightingservice IS2418-1963
8) TungstenFilamentLampsforcameralserviceIS415-1963,9)CeilingFansIS274-1966
10)FloodlightsIS1947-1961,11)WallGlassflame-proofelectriclightfittingsIS2206-1962(Part1),12)WaterTightElectricLightFittingsIS3553-1956
13) SteelBoxesforEnclosure ofElectricalAccessories IS5133-1969
14) FittingsforRigidSteelconduitIS2667-1979
15) RigidsteelcircuitsforelectricalwiringIS3837-1966
16) AccessoriesforRigidSteelConduitsforElectricalWiringIS3837-1966
17) SwitchSocketOutletsIS3837-1966,18)PVCWiringIS694-1977
19)Switchesfordomestic andsimilarpurpose IS3854-1966,20)PVCwiringIS694-1977
21)CallBellandBuzzersIS2268-1966,22)Straightthroughjointboxesandleadssleevesorpaperinsulatedcables-EID-0032-1964,23) Earthing IS3043-1966
24)ElectricalWiringinstallationsIS732-1963,25)SwitchgearIS3072-1965(PartI)
26)LightingprotectionIS2309–1969,27)PublicAddresssystemIS1882-1962
28) Low Tension switch use units IS4064-1978,29) Code of Practice for Automatic FIRE ALAMsystem IS2189-1970,30) Specification for Heat Sensitive Fire Detectors IS2175-1977,31) Guide forSafetyprocedurein ElectricworkIS5216-1969
32)RubberMatsforElectricworksIS5424-1969

GENERALCONDITIONSbindingon theCONTRACTOR:

1.Contractor'sResponsibility.

a) The contractor shall provide at his cost everything necessary for the proper execution of the worksaccordingtotheintendandmeaningofthedrawings,scheduleofitemsandquantitiesandspecifications taken together, if the same is not particularly shown or described therein, provided thatthesamecanreasonably beinferredtherefrom,iftheContractorfindsany discrepancy inthedrawings or between the drawing and schedule of quantities and specifications, he shall ,immediatelyinwriting referthe sameto theEngineer-in-chargewhose decision shallbe final&binding.

b) All materials and workmanship shall be of the respect kinds described in the specification .B.O.Q,contract and in accordance with the instruction of the Engineer-in-charge. The contractor must satisfyhimselfaboutthesamewhilefurnishingsamplesforapprovaloftheEngineer-in-chargebeforeincorporationin the works.

1. Any increase or decrease over or below the Schedule of Quantities appended to the tenderduring the execution be carefully watched to determine the financial implication in accordancetothecodalprovision .
2. No extra items extra quantities beyond the agreement quantities should be allowed withoutprior permission form competent authority in respect of items for which the contractor hasquotedhis ratesmorethan 25%excessover thecorresponding estimated cost.
3. Thecontractoristobearrequiredsalestaxes,octroitaxesallothertaxesandroyalitiesetcasare in force from time to time. Royalty will be reimbursed on production of valid moneyreceiptbythecontractorfromtheconcernTahasildar.
4. The contractor has to pay the minimum wages fixed by Government from time to time to thelabouersengagedbyhiminthework.
5. The work should be executed as per approved designs. Necessary soil tests/ field tests etc. aretobe conducted atsitetoensure the structuraladequacy.
6. Thesampleofmaterialsusedforthe workshouldbegotapprovedfromthecompetentauthoritybeforeexecution ofwork.
7. NumberoftestsasspecifiedinI.R.C./MORT&H/I.S.specificationrequiredfortheconstruction of roads/ bridges/ building or any other structural works will be conducted as perrequired frequency in any /Govt. Test House/ Departmental labouratories/ Reputed materialtestinglaboratoryastobedecidedbytheEngineer-in-charge.Testingchargesincludingexpenditure for collection / transportation of samples/ specimens etc. will be borne by thecontractor. The collection of sample and testing are to be conducted for both prior to exactionand during the course of execution as may be directed the Engineer-in-charge and on both theaccounts the cost shall be borne by the contractor Besides the Firm/ Contractor shall install fullfledgedfieldlaboratoryatworksiteforconductionrequiredtestsasperI.R.C./MORT&H /I.Srequirementsinhisowncostforprovidingopportunityforcheckingfromtimetotime.
8. The fortnightly progress of work both physical and financial should be submitted for with andanyfailureofprogressofworkinproportionateworkprogrammeassubmittedbythecontractor should be reported and appropriate action as deemed proper should be taken underthe terms and conditionsof theagreement.
9. Theworkshouldberestrictedtotheavailablefunds.
10. The Chief Engineer, Superintending Engineer, Executive Engineer, while inspecting the workunderexecutionshouldinvariablyrecordhisobservationsintheRegisterofinspectionsmaintained atthesiteofworkforwhichthetenderhasbeenacceptedbyhimorbyGovernment.Heshallmakefinal inspectionofsuchworksaftercompletionthereofthepaymentof the finalbills.
11. It shall be the responsibility of the contractor to produce all materials required for the workincluding procurement of steel, cement etc.(to be approved by the Engineerin-charge) fromthemarketathiscostandcompletetheworkwithinthestipulatedtimeofcompletionasper

accepted agreement. At no stage difficulty or obstacle for procurement of materials due to anreasons whatsoever shall not be entertained by the departmentnor any plea for extension oftime or compensation / claim to this effect shall be entertained onaccount of the above. Thesafe custody of the materials procured by the contractor will be sole responsibility of thecontractor. The empty cement bags are required to be returned to the Department in default ofwhichcostthereof @ofprevailing depttrate.

12. All items of work must be executed as per relevant IS/BIS specifications inforce in the circleand invariablyshallbepartofthis agreementforensuring qualityasperspecifications.

TOTALNOSOFPAGESofDTCN/Bid-Id:EE(AGRIL),NAYAGADA-02/2026-27:54(Fifty four pages)only.

APPROVED

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