

GOVERNMENT OF ODISHA

PR & DW DEPARTMENT

Government of Odisha

CHECKLISTTOBEENSUREDBYTHEBIDDER

Sl. No.	Particulars	ReferencetoClauseNo	Whether Furnished		Reff .toPage no.
			Yes	No	
01.	Costoftender paper **asperTender callNotice (Online)**	D.T.C.N Clause No.03 & No.119			
02.	E.M.Dasrequired **as perTendercallNotice (Online)**	D.T.C.N Clause No.05 & No.119 & 122			
	OR				
	E.M.D asrequiredincaseofdeployingmachineriesoutsidetheState	D.T.C.N Clause No.05 &ClauseNo.9(V)&No.122			
03.	Copy of valid Registration Certificate (alongwith online CDMSgeneratedcertificate)andSubcontractlicenseifanyasrequired	D.T.C.N Clause No.04 &06,126			
04.	CopyofValidGSTRegistration Certificate andGSTIN	D.T.C.N Clause No.04 & 06and128			
05.	CopyofPANCard	D.T.C.N ClauseNo.04&128			
06.	NoRelationCertificateinSchedule-A	D.T.C.NClauseNo.11 & 128			
07.	WorksExperience-	D.T.C.N ClauseNo.12&128			
(A)	List of projects executed that are similar in nature to the work(i.eComposite building work) executed in the last financialyears upto2017-18 must not be less than 30% of amount put to tender(Schedule-D1)	Asrequired			
(B)	Worksin hand-Listofprojectsinprogressthataresimilarinnatureto the work(Schedule-D2)	Asrequired			
08.(A)	Informationregardingcurrentlitigation,debarring/ expellingofthetenderorabandonmentof theworkbythetenderer(Schedule-E)	D.T.C.NClauseNo.10 &128			
(B)	Affidavit(Schedule-F)	D.T.C.NClauseNo.10, 122&128			
09.(A)	Tools&Plantsand machineries aspertherequirementinSchedule-C(Proof of ownership of Tools & Plants and machineries is to befurnished in shape of copy of invoices / required sale deed in case of2nd purchase / required lease deed with owner ship documents ofthe leaser dulyattested.	**Required**			
	Listofplantsandequipment withvalidFitnessasrequired	**Required**			

	Watertanker	1 no.			
	Truck/Tipper	1 no.			
	TractorwithTrolly	1no.			
	Concretemixer	2no.			
	Concreteneedlevibrator(60mm)(completeset)	1set.			
	Concreteplatevibrator (40mm)(completeset)	1set.			
	Completestage shuttering,centering arrangement(Quantityin shapeofsqft.Orsqm.onlyareconsidered)	700sqm.OR 7532sqft.			
	AS PERCONDITIONSOFANNEXUREIOFSCHEDULEC				
	Thedetailofplantandmachineryequipmentrequiredforeach workof the tender call notice as per Annexure–I of schedule C of DetailedTenderCall Notice.	**Required**			
10	Details of quarry forstoneproduct,sand&moorumifanyforprocuremen tby contractor asper Annexure–V	D.T.C.N Clause No 23 as perAnnexure- V			
11	For 'A' Class contractor he/she should submit the details ofemploymentof02diplomaholderor01graduateengineerbe longingtostateofOdisha.	D.T.C.NClauseNo.83			
Note:-It is directed to upload online the relevant documents as per the check list in sequential order alongwith filledchecklistanduploadthesameinonlineandcareshouldbetakenwhileuploading thedocumentstomaintainthescancopy200DPIormorefor clear vision.					

CONTRACTDATA

A. GENERALINFORMATION

SL No.	Item	Details
1	BidIdentificationNo.	01/2026-27/Nilgiri/001
2	Nameofthework	MENTIONED IN TENDER NOTICE
3	OfficerInvitingauthority	Block Development Officer,Nilgiri
4	Estimatedcost	MENTIONED IN TENDER NOTICE

B. BID INFORMATION

1	Intendedcompletionperiod/Timeperiodassignedfor Completion.		**04(Four)CalendarMonths**
2i)	LastDateandTimeofsubmissionofBid		**17.00Hours,Dt.15.12.2025**
ii)	OpeningofBid**(Technical)**		**11.00Hours,Dt.16.12.2025**
3	CostofBiddocument(ClauseNo-3ofDTCN)		
	i)	Toberemittedonline	AsspecifiedintheBiddocument
4	Bidsecurity(ClauseNo.5ofDTCN)		
	i)	Toberemittedonline	AsspecifiedintheBiddocument
	ii))	Typeofinstrument	AsspecifiedintheBiddocument
5	AdditionalPerformanceSecurity(Clause26 ofDTCN)		
	i)	Amount	AsperWorks DepartmentOfficeMemorandumNo.4559dtd.05.04.2021
	ii)	Pledgedinfavourof	Block Development Officer, Nilgiri
	iii)	Typeofinstrument	AsspecifiedintheBidDocument
6	Bidvalidityperiod		90days
7	Minimumperiodofcontract/agreement / lease deed of equipment andmachineriesasperClauseNo.09(v)of DTCN		**04(Four)calendarmonths**
8	CurrencyofpaymentforContract		IndianRupee
9	LanguageofContract		English

Proceduretoparticipateinonlinebiddinge-procurement

1. PARTICIPATINGINTHEBIDINTHEE-PROCUREMENTPORTAL:

a). The Contractor/Bidder intending to participate in the bid is required to register in thePortal using his / her active personal/ official e-mail ID as his Login ID and attach his/hervalid Digital Signature Certificate (DSC) to his/her unique Login ID. The DSC used mustbe of appropriate class (Class II or Class III) issued from a registered Certifying Authoritysuch as n-code, Sify, TCS, MTNL etc. He/ She have to submit the relevant information asasked for about the firm/ contractor. The portal registration of the bidder/ firm is to beauthenticatedbytheStateProcurementCellafterverificationoforiginalvalidcertificates/documentssuchas(i)PANand(II)RegistrationCertificate (RC)/GSTRegistration Certificate and GSTIN (for procurement of goods) of the concerned bidder.The time period of validity in the portal is at par with validity of RC/ GST RegistrationCertificate and GSTIN. Any change of information by the bidder is to be re-authenticatedby the State Procurement Cell. After successful authentication bidder can participated inthe online bidding process. Contractor not registered with Government of Odisha canparticipate in the e-procurement after necessary enrolment in the portal but have tosubsequently register themselves with the appropriate registering authority of the StateGovernmentbeforeawardoftheworkasperprevalentregistration normsoftheState.

b). To log on to the portal the Contractor/Bidder is required to type his/her username andpassword.ThesystemwillagainasktoselecttheDSCandconfirmitwiththepasswordof DSC. 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 thelogin processforuse ofportal.

c). ThetenderdocumentsuploadedbytheTenderInvitingOfficerinthewebsitehttps://tendersodisha.gov.in will appear in the section of "Upcoming Tender" before thedue date of tender sale. Once the due date has arrived, the tender will move to "ActiveTender" Section of the homepage. Only a small notification will be published in thenewspaper specifying the work details along with mention of the specific website fordetails. The publication of the tender will be for specific period of time till the last date ofsubmission of bids as mentioned in the 'Invitation for Bid' after which the same will beremoved from the list of Active tenders. Any bidder can view or down load the biddocuments fromthewebsite.

d). Contractor exempted from payment of EMD will be able to participate in the tenderdirectlybyuploadingdocumentaryevidencestowardshiseligibilityforsuchexemption.

e). The software applicationhas the provisionof paymentofcostoftender documentthrough payment gateways of authorized bankers by directly debiting the account of thebidders.

f). Furnishingscannedcopyofsuchdocumentsismandatoryalong with the tenderdocuments otherwise his/her bid shall be declared as non-responsive and thus liable forrejection.BiddersparticipatingthroughJointVentureshalldeclaretheauthorizedsignatory through Memorandum of Understanding duly registered and enroll in the portalin the name and style of the joint venture company. It is mandatory that the DSC issuedin thename oftheauthorizedsignatoryisusedintheportal.

g). Inthe caseof any failure, malfunction, or breakdownof theelectronic system usedduringthee-procurementprocess,thetenderinvitingofficershallnotacceptanyresponsibility for failures or breakdowns other than in those systems strictly within theirown control.

h). Any third party/company/person under a service contract for operation of e-procurementsystem in the State or his/their subsidiaries or their parent companies shall be ineligibletoparticipateintheprocurementprocessesthatareundertakenthroughthee-procurementsystemirrespectiveofwho operatesthesystem.

i). For submission of Bids through the E-Procurement Portal, the bidder shall up load thescanned copy/copies of document in prescribed format wherever warranted in support ofeligibility criteria and qualification information. The on line bidder shall have to producethe original documents in support of the scanned copies and statements uploaded in the portable forthespecified dateasperDTCN.

j). Each bidder shall submit only one bid for one package. A bid is said to be complete ifaccompanied by cost of bid document and appropriate bid security. The system shallconsider onlythelastbidsubmitted through thev E-Procurement portal.

k). The bidder may ask question related to tender online in the e-procurement portal usinghis/her DSC, provided the questions are raisedwithin the periodofseeking clarificationas mentioned in tender call notice/Bid. The Officer inviting the Bid/ Procurement Officer-Publisherwillclarifyquarriesrelatedtothetender.

l). The details of drawings and documents pertaining to the works available with the officerinviting the Bid as well as in the office of theDistrict Project Coordinator as mentioned inthe Contract Data will be opened for inspection by the bidders. The bidder is required todown load all the documents for preparation of his bid. It is not necessary for the part ofthe Bidder to up-load other Bid documents (after signing) while up-loading his bid. He isrequiredtouploaddocumentsrelatedtohiseligibilitycriteriaandqualificationinformation and Bill of Quantities duly filled in. It is assumed that while participating inthe bid, the bidder has referred all the drawings and documents. Seeking any revision ofrates or backing out of the bid claiming for not having referred to any or all documentsprovided in the Bid by the Officer Inviting the Bid will be construed as plea to disrupt thebiddingprocess andin suchcasesthebidsecurityshallbeforfeited.

m). Any addendum / corrigendum/ cancellation of tender shall be published in the websitehttps://tendersodisha.gov.in, notice board and through paper publication and such noticeshallformpart ofthebiddingdocuments.

n). The system generates a mail to those bidders who have already uploaded their tendersandthose biddersif theywishcanmodify their tenders. The bidders are requiredtowhichthewebsitetilllastdateandtimeofbidsubmissionforanyaddendum/corrigendum/cancellationthereof.Tenderinvitingauthorityisnotresponsibleforcommunication failure of system generated mail. All the volumes/documents shall beuploaded/ provided in the portably theOfficerinvitingthebid.

o). The bidder shall carefully go through the document and prepare the required documentsand up load the scanned documents in Portable Document Format to the portal in thedesignatedlocationsofTechnicalBid.HewillfilluptheratesofitemsorpercentageintheboqdownloadedfortheworkindesignatedCellanduploadsthesameindesignatedlocationsofFinancialBid.Biddersaretosubmitonlytheoriginalboquploadedbypublisherafterenteringtherelevantfieldswithoutanyalteration/deletion/modification. Multiple BOQ submission shall lead to cancellation of bid.In case of item rate tender, bidders shall fill in their rates other than Zero value in thespecified cells. In the percentage rate tender, the bidder quoting Zero value is valid andwill be taken as Schedule of Rates. Submission of document shall be effected byusingDSCofappropriate class.

2. PAYMENTOFEMD/BIDSECURITYANDCOSTOFBID DOCUMENTS:

a). The Bidder shallfurnish, as part of his Bid, a Bid security for the amount mentionedunder NIT/Contract Data in online mode. Non-submission of bid security within thedesignated period shall debar the bidder from participating in the online bidding systemand his portal registration shall be cancelled. His name shall also be informed to theregisteringauthorityforcancellation ofhisregistration.

b). The EMD or Bid Security payable along with the bid is 1% of the estimated contract value(ECV)orasmentioned inthebid document.

c). Deleted.

d). The tender accepting authority willverify the originals of allthe scanned documents ofthesuccessfullowestbidderonlywithin5daysofopeningofthetender(pricebid).Inthe eventuality of failure on the part of the lowest successful bidder to procedure theoriginal documents, he will be debarred in future from participating in tender for 3 yearsand will be black listed by the competent authority. In such as situation, successful L-2bidderwillberequiredtoproducehisoriginaldocumentsforconsiderationofhistenderatthenegotiated rate equaltoL1bidder.

e). Contractor exempted from payment of EMD will be able to participate in the tenderdirectlybyuploadingdocumentaryevidencestowardshiseligibilityforsuchexemption.

f). Government of Odisha has introduced e-payment gateway in to the portal for payment ofcost of Bid and Bid Security/ Earnest Money Deposit. The process of using e-paymentgateway is mentioned in the "**Procedure for Electronic receipt, accounting andreporting of Cost of Tender Paper and Earnest Money Deposit on submission ofbids**". .

3. FORMATANDSIGNINGOFBID:(LoggingtothePortal)-

a). TheContractor/BidderisrequiredtotypehisherLoginIdandPassword.Thesystemwill again ask to select the DSC and confirm it with the password of DSC as a secondstage authentication. For each login, a user's DSC will be validated against its date ofvalidity and also against the Certificate Revocation List (CRL) of respective CAs stored insystemdatabase.Thesystems checktheuniqueLoginID,PasswordandDSCcombination and authenticatesthelogin processforuse ofportal.

b). The bidder can download the tender of his choice and save it in his system and undertakethenecessarypreparatorywork off- lineanduploadthe completed tenderathisconvenience within the final date and time of submission. The bidder shall only submitsingle copy of the required documents and Price Bid in the portal. Inthe Financialbid,the bidder cannot leave any figure blank. He has to only write the figures, the words willbe self-generated. The Bidders are advised to up load the completed Bid document wellahead of the last date & time of receipt to avoid any last moment problem of powerfailuresetc.

c). The Bidder shall go through the Bid carefully and list the documents those are asked forsubmission. He shall prepare all documents including Declaration form, price bid etc andstoreinthesystem.

d). The bidder shall log on to the portal with his DSC and move to the desired tender for uploading the documents in appropriate place one by one simultaneously checking thedocuments. Once the Bidder makes sure that all the documents have been up-loaded

inappropriateplacehe clicksthesubmitbuttontosubmit thebidtothe portal.

e). The bids once submitted cannot be retrieved or corrected. Tender cannot be pre-openedand cannot be submitted after due date and time. Therefore only after satisfying that allthedocumentshavebeen uploaded,the Bidder shouldactivatesubmitbutton.

f). In the e-procurement process each processes are time stamped. The system can identifyeach individual who has entered in to the portal for any bid and the time of entering in totheportal.

g). TheBiddershouldensureclarityofthedocumentuploadedbyhim totheportalespecially the scanned documents by taking out sample printing. Non-submission oflegible documents may render the bid non-responsive. However, the Officer inviting theBid if so desires can ask for legible copies or original copies for verification with in astipulated period provided such document in no way alters the Bidder's price bid. If theBidder fails to submit the original documents with in the stipulated date, his bid securityshallbeforfeited.

4. SUBMISSIONOFBIDS:-

a). The bidder shallcarefullygo throughthe tender andprepare the requireddocuments.The bid shallhave aTechnicalBidanda FinancialBid. The Technicalbid generallyconsists of GSTIN, PAN, Registration Certificate, Affidavits, Profit Loss statement, Jointventure agreement, List of similar nature of works, work in hand, list of machineries andany other information required by OIT. The Financial Bid shall consist of the Bill ofQuantities(BOQ)andanyotherpricerelatedinformation/undertakingincludingrebates.

b). Bidders are to submit only the original BOQ (in .xls format) uploaded by ProcurementOfficer Publisher (Officer Inviting Tender) after entering the relevant fields without anyalteration/deletion/modification.MultipleBOQsubmissionbybiddershallleadtocancellation of bid. In case of items rate tender, bidders shall fill in their rates other thanzero value in the specified cells without keeping it blank. In the percentage rate tenderthe bidder quoting zero percentage is valid and will be taken at par with the estimatedrateoftheworkput totender.

c). The bidder shall upload the scanned copy/ copies of document in support of eligibilitycriteria and qualification information in prescribed format in Portable Document Format(PDF)totheportalinthedesignated locationsofTechnicalBid.

d). The bidder shall write his name in the space provided in the specified location in theProtected Bill of Quantities (BOQ) published by the Officer Inviting Tender. The biddershall type rates in figure only in the rate column of respective items(s) without any blankcell in the rate column in case of item rate tender and type percentage excess or less uptotwodecimalplaceonlyincaseof percentage ratetender.

e). The bidder shall log to the portal with his/ her DSC and move to the desired tender for uploading the documents in appropriate place one by one simultaneously checking thedocuments.

f). Bids cannot be submitted after due date and time. The bids once submitted cannot beviewed, retrieved or corrected. The Bidder should ensure correctness of the Bid prior touploading and take print out of the system generated summery of submission to confirmsuccessfuluploadingofbid.Thebidscannotbeopenedevenbytheoitortheprocurement OfficerPublisher/openerbeforetheduedateandtimeof opening.

g). Eachprocessinthe-procurementistimestampedandthesystemcandefectthetimeoflog inofeach userincludingtheBidder.

h). The Biddershouldensureclarity/ legibility of the document uploadedby himto theportal.

i). The system shall require all the mandatory forms and fields filled up by the contractorduringtheprocessofsubmissionofthebid/tender.

j). The bidder should check the system generated confirmation statement on the status ofthesubmission.

k). The bidder should upload sufficiently ahead of the bid closure time to avoid traffic rushandfailureinthenetwork.

l). The Tender Inviting Officer is not responsible for any failure; malfunction or breakdown oftheelectronicsystem used duringthee-procurementprocess.

m). The Bidder is required to upload documents related to his eligibility criteria andqualification information and Bill of Quantity duly filled in. It is not necessary for the partof the bidder to upload the drawing and the other Bid documents (after signing) whileuploading his bid. It is assumed that the bidder has referred all the drawings anddocuments uploaded bytheOfficerInvitingtheBid.

n). The Bidder will not be able to submit his bid after expiry of the date and time ofsubmission of bid (server time). The date and time of bid submission shall remainunaltered even if the specified date for the submission of bids declared as a holiday for the OfficerInviting theBid.

o). The 'Online bidder' shall digitally sign on all statements documents, certificates uploadedby him, owning responsibility for their correctness/ authenticity as per IT ACT 2000. Ifany of the information furnished by the bidder is found to be false/ fabricated/ bogus, hisEMD/BID Security shall stand forfeited and his registration in the portal shall be blockedandthebidderisliabletobeblacklisted.

5. SECURITYOFBIDSUBMISSION:

a). All bid data uploaded by the Bidder to the portal will be encrypted by the DSC of theopener(s). The system shall require all the mandatory forms and fields filled up by thecontractorduringtheprocessofsubmission ofthebid/tender.

b). TheBidshallbereceivedinencryptedformatby thesystemwhichcan only bedecrypted /openedbytheauthorizedopenersonlyon orafterthedueдateandtime.

6. DEADLINEFORSUBMISSIONOFTHEBIDS:

The online bidding will remain active till the last date and time of the bid submission.Once the date and time (Server date and time) is over, the bidder will not be able tosubmit the bid. The date & time of bid submission shall remain unaltered even if thespecified date for the submission of bids declared as a holiday for the Officer inviting theBid.

7. RESUBMISSIONANDWITHDRAWALOFBIDS:

a). ResubmissionofbidbytheBiddersforanynumberoftimesbefor thefinaldateandtimeofsubmissionisallowed.

b). Resubmissionofbidshallrequireuploadingofall documentsincludingpricebidafresh.

c). Ifthebidderfailstosubmithismodifiedbidswithinthepre-definedtimeofreceipt,thesystemshallconsideronlythelastbid submitted.

8. LATE BIDS: The system shall reject submission of any bid through portal after closure ofthe receipt time. For all purpose the server time displayed in the e-procurement portal

shallbethetimetobefollowed bythebidderandconcernedofficers.

9. MODIFICATIONANDWITHDRAWALOFBIDS:

a). In the E-Procurement Portal, it is allowed to modify the bid any number of times beforethe final date and time of submission. The bidder shall have to log on to the system andresubmit the documents as asked for by the system including the price bid. In doing so,the bids already submitted by the bidder will be removed automatically from the systemand the latest bid only will be admitted. But the bidder should avoid modification of bid atthe lastmomenttoavoid systemfailureormalfunctionofinternetortrafficjamorpowerfailure. If the bidder fails to submit his modified bids with in the designated time ofreceipt,thebidalreadyin thesystemshallbetaken forevaluation.

b). IntheE-ProcurementPortal,withdrawalofbidisallowed.Butinsuchcasehehastowrite a letter with appropriate reasons for his withdrawal addressed to the Officer invitingthe bid and up load the scanned document to portal in the respective bid before theclosure date and time of receipt of the bid. The system shall not allow any withdrawalafter expiryofthe closuretimeofthebid.

10. OPENINGOFTHEBID:

a). Bidopeningdateisspecifiedduringtendercreationorcanbeextendedwithcorrigendum. This date is available in IFB, tender document as well as the home page ofportal. Bid opening can be done by the authorized users which are defined during thetender publication / approval stage. The bids are encrypted using their public keys andcan be decrypted only on or after the Bid Opening due date and time. The bid openersprivate key will be required to open the bids and all the openers have to log on to theportalduring that time.

b). The bidders who participated in the on line bidding can witness opening of the bid fromany system logging on to the portal with the DSC away from opening place. Contractorsare not required to be present during the bid opening at the opening location if they sodesire.

c). Each activity is date and time stamped with user details. For time stamping, server timeistakenasthereference.

d). In the event of the specified date of bid opening being declared a holiday for the Officerinviting the Bid/Engineer-in-Charge, the bids will be opened at the appointed time on thenextworkingday.

e). In case bids are invited for more than one package, the order for opening of the "Bid"shallbethat in whichtheyappearinthe"Invitation forBid".

f). The Bidopeners;whohave beenpre-definedshall logonto the portalwiththeirrespectiveDSC.UnlessalltheOfficerswhohavebeendeclaredasOpeningofficers, login theportalwiththeirDSCthe Tender cannotbeopened.

g). In case of non-responsive tender the officer Inviting tender should complete the e-Procurementprocess by uploadingtheofficialletterforcancellation/re-tender.

11. EVALUATIONOFBIDS:-

a). All the opened bids shall be downloaded and printed for taking up evaluation. The officerauthorized to open the tender shall sign and number on each page of the documentsdownloaded and furnish a certificate that "the documents as available in the portalcontainingnos.ofpages".

b). After opening of technical bid, the bidder may be asked in writing / online (in theirregistered e-mail ID) to clarify on the uploaded documents provided in the Technical Bid,if necessary, with respect to any doubts or illegible documents required for TechnicalEvaluation. The Officer Inviting Tender may ask for any other document of historicalnature during Technical Evaluation of the tender. Provided in all such cases, furnishing ofanydocumentinnowayaltersthebidderspricebid.Nonsubmissionoflegibledocuments may renderthe bidnon-responsive. The authority inviting bidmay reservetheright toaccept any additionaldocument.

c). The bidders will respond in not more than 7 days of issue of the clarification letter, failingwhich thebidofthebidderwillbeevaluated on itsownmerit.

d). Immediately, on receipt of these clarifications, the Evaluating Officers; predefined in thesystemforthebid,willfinalizethelistofresponsivebidders.They will ogontothesitewith their DSC and record their comments on the Technical evaluation page in thesystem. The Officer Inviting the Bid if also the accepting authority, shall log on to thesystem with his digital signature and check the technical evaluation. He can either acceptor pass on to the evaluating officers for re-evaluation. Upon acceptance of technicalevaluation by the Accepting authority in the system, the system shall automaticallygenerate letter to all the responsive bidders and the system shall forward the letter to allthe responsive bidder that their technical bid has been evaluated responsive with respectto the data/information furnished by him and the letter shall also intimate him the date &time of opening of financial bid. The system shall also inform the non-responsive biddersin theire-mailIDthat theirbidhasbeenfoundnon-responsive.

e). The Technical evaluation of all the bids shall be carried out as per the informationfurnished by the Bidders. But evaluation of the bid does not exonerate the bidder's fromchecking their original documents and if at a later date the bidder is found to have misledthe evaluation through wrong information, action as per relevant clause of DTCN shall betaken againstthebidder/contractor.

f). The Procurementofficer-Evaluatorswillevaluate bidandfinalized listofresponsivebidders. Opening of price bid and evaluation of lowest bidder is subject to satisfaction ofotherqualificationinformation.

g). Thefinancialbidthetechnicallyresponsivebiddersshallbeopenedontheduedateof opening. The Procurement Officer-Openers shall log on to the system in sequence andopen thefinancial bids.

h). The Financial Bid will be opened on the notified date & time in the presence of bidders ortheirauthorized representativewho wishtobepresent.

i). At the time of opening of "Financial Bid", the names of the bidders whose technical bidswere found responsive will be announced and the bids of only those bidders will beopened.Theremainingbidswillberejected.

j). The responsive bidders' name, the bid prices, the item wise rates; the total amount ofeachitemincasetheitemratetenderandpercentageaboveorlessincaseofpercentage rate tenders will be announced. Any discounts and withdrawals, and suchotherdetailsastheofficerinvitingthetendermayconsiderappropriate,willbeannouncedbyhim orhisauthorizedrepresentativesatthetimeofopening.

k). Rebate/ discount tofferifanyuploadedtothesystemshallbedeclaredandrecorded first.

l). TheFinancialbidofthebiddersshallbeopenedonebyonebythedesignatedofficersandthesystemshallauto-generate theComparativestatement.

m). TheBiddercanwitnesstheprincipalactivitiesandviewthedocuments/summaryreportsforthatparticularworkbyloggingontotheportalwith hisDSCfromanywhere.

n). ProcurementOfficer-Openersshallsignoneachpageofthedownload BOQandtheComparativeStatementandfurnishacertificatetothatrespect.

o). SystemprovidesanoptiontoProcurementOfficerPublisherforreconsideringtherejected bidwith theapprovalofconcernChiefEngineer/ Head of Department.

12. CLARIFICATIONAND NEGOTIATIONOFBIDS:

a). For examination, evaluation, and comparison of bids, the officer inviting the bid may, athisdiscretion,askthelowestbidderforclarificationofhisrates including eductionofrateonnegotiationandbreakdownsofunit rates.

b). On opening of the price bid the system shall arrange the financial bids in order of theirvalue (L1 first, followed by L2, L3 ….) for subsequent evaluation. The evaluation status(Sheet) will be visible to all the participating bidders after opening on their respectivelogins.Eachactivityisrecordedinthe systemwith dateand time stamping.

13. NOTIFICATIONOFAWARDANDSIGNINGOFAGREEMENT:

a). In the E-Procurement Portal, the system shall generate the template of award letter andthe OfficerInvitingthe Bid shallmentionthe amountof Performance Security andadditional security required to be furnished in the letter and intimate the bidders in his e-mailID.

b). The Employer/ Engineer-in-Charge shall notify acceptance of the work prior to expiry ofthe validity period by cable, telex or facsimile or e-mail confirmed by registered letter.This letter of Acceptance will state the sum that the Engineer-in-Charge will pay thecontractor in consideration of execution and completion of the works by the contractor asprescribedbythecontractandtheamountofperformancesecurityand AdditionalPerformance Security required to be furnished. The issue of the letter of Acceptance shallbetreatedas closure of theBid processandcommencementothecontract.

c). TheContractorafterfurnishingtherequiredacceptablePerformanceSecurityandAdditional Performance Security, “Letter of Proceed” or “Work Order” shall be issued bythe Engineer-in-Chargewithcopythereoftothe ProcurementOfficerPublisher.TheProcurement Officer-Publisher shall up load the summery and declare the process ascomplete.

d). If the L1 bidder does not turn up for agreement after finalization of the tender then heshall be debarred from participation in bidding for three years and action will be taken toblacklist the contractor. Besides the consortium/ JV/firm where such an agency/ firmalready happens to be or is going to be a partner/ member/ proprietor , he/ they shallneitherbeallowedforparticipationinbiddingforthreeyearsnorhis/theirapplicationwill be considered for registration and action will be initiated to blacklist him/ them. Inthat case, the L2 bidder, if fulfils other required criteria would be called for drawingagreement for execution of work subject to condition that the L2 bidder negotiates at parwith thequoted bythe L1bidder,otherwisethetenderwillbecancelled.

14. BLOCKINGOFPORTALREGISTRATION

a). If the registration Certificate of the contractor is cancelled/ suspended by the registeringauthority/ blacklisted by the competent authority his portal registration shall be blockedautomaticallyon receipt tofinformation tothat effect.

b). The portal registration blocked in the ground mentioned in the above Para- 11.1 shall beunblockedautomaticallyinreceiptofrevocationorderofcancellation/suspension/blacklistingfromtheconcerned authority.

c). The Officer Inviting Tender shall make due inquiry and issue show cause notice to theconcerned contractorwho in turn shallfurnish hisreply, if any, within afortnightfromthe date of issue of show cause notice. Thereafter the Officer Inviting Tender is requiredtoissueanintimationtothedefaultingbidderabouthisunsatisfactoryreplyandrecommend to the Chief Manager (Tech) for blocking of portal registration within 10 daysof intimation to the defaulting bidder regarding his unsatisfactory reply with intimation tothe Registering Authority and concerned Chief Engineer/ Heads of Office if any of thefollowingprovisionsare violated.

i. FailstofurnishoriginalTechnicalDocumentsbeforthedesignatedofficerwithinthe stipulate dateand time.
ii. Backsoutfromthebidonanydayafterthelastdateof receipt totender tillexpiryofthebidvalidityperiod(includingtilltheextendedbid validityperiod)
iii. Failstoexecute theagreementwithinthestipulateddate.
iv. Ifanyoftheinformationfurnishedbythebidderisfoundtobefalse/fabricated/bogus.
v. Accordingly the officer Inviting Tender shall recommended to the Chief Manager(Tech) State Procurement Cell, Odisha for blocking of portal registration of bidder andsimultaneouslyactionshallalsobeinitiatedbyOFFICERINVITINGTENDERforblacklisting as per Appendix-XXXIV of OPWD code Volume-II. The minimum period ofblockingofPortalRegistration shallinnocasebeless than180 days.

ProcedureforElectronicreceipt,accountingandreportingofCostofTenderPaper and EarnestMoneyDepositonsubmissionofbids

1. TheStateGovernmenthaveformulatedrulesandproceduresforElectronicreceipt,accounting and reporting of the receipt- of Cost of Tender Paper and Earnest Money Depositon submission of bids through the e-procurement portal of Government of Odisha i.e."https://tendersodisha.gov.in".

2. Electronic receipt of cost of tender paper has been successfully tested through SBI paymentgateway. Now it has been decided to introduce electronic receipt of Cost of Tender Paperand Earnest Money Deposit on submission of bids through payment gateway of designatedbanks such as SBI/ICICI Bank/HDFC Bank for all Government Departments, State PSUs.Statutory Corporations, Autonomous Bodies and Local Bodies etc. in phases (ANNEXURE-I).Theprocess outlineas wellasaccountingandreportingstructureareindicatedbelow:

a) It will be carried out through a single banking transaction by the bidder for multiplepayments like **Cost of Tender Paper and Earnest Money Deposit on submission ofbids.**

b) Various payment modes like Internet banking/ NEFT/RTGS of Designated Banks and theirAggregatorBanksaswellcanbeaccessedbytheintendingbidders.

c) Reportingandaccountingofthe e-receiptswill bemadefromasinglesource.

d) Credit of receipts into the Government accounts and to the designated Bank account oftheparticipating entitiesindicated inPara2abovewouldbefaster.

3. Only those bidders who successfully remit their Cost of Tender Paper and Earnest MoneyDeposit on submission of bids would be eligible to participate in the tender/bid process. Thebidders with pending or failure payment status shall not be able to submit their bid. Tenderinviting authority, State Procurement Cell, NIC, the designated Banks shall not be heldresponsibleforsuchpendencyorfailure.

4. Bankingarrangement:

a) Designated Banks (SBI/ICICI Bank / HDFC Bank) payment gateway are being integratedwithe-Procurementportal ofGovernmentofOdisha(https://tendersodisha.gov.in)

b) The Designated Banks participating in**Electronic receipt, accounting and reportingof Cost of Tender Paper and Earnest Money Deposit on submission of bids** willnominate a Focal Point Branch called e-FPB, who is authorized to collect and collate all e-Receipts. Each such branch will act as the Receiving branch and Focal Point Branchnotwithstanding the fact that the bidder might have debited his account in any of thebank'sbrancheswhilemaking payment.

5. Procedures of bid submission using electronic payment of tender paper cost andEMDbybidder:

a) **Logontoe-ProcurementPortal:**ThebiddershavetologontotheOdishae-Procurementportal(https://tendersodisha.gov.in)usinghis/herdigitalsignaturecertificateandthen searchandthenselecttherequiredactivetenderfromthe"SearchActive Tender" option. Now submit button can be clicked against the selected tender sothatit comestothe "MyTenders" section.

b) **Uploading of Prequalification/Technical/Financial bid:** The bidders have to uploadtherequiredPrequalification/Technical/Financialbid,asmentionedinthebiddingdocument andinlinewithWorksDepartmentofficememorandumno.7885,dt.23.07.2013.

c) **Electronic payment of tender paper cost and EMD:** Then the bidders have to selectandsubmitthebanknameasavailablein thepaymentoptions.

I. A bidder shall make electronic payment using his/her internet banking enabledaccountwith designated Banks ortheiraggregatorbanks.

II. A bidder having account in other Banks can make payment using NEFT/RTGS facilityofdesignated Banks

- Online NEFT/RTGS payment using internet banking of the bank in which the bidderholds his account, by adding the account number as mentioned in the challan as aninterbankbeneficiary.

d) **Bid submission:** Only after receipt of intimation at the e-Procurement portal

regardingsuccessful transaction by bidder the system will activate the 'Freeze Bid Submission'button toconcludethe bid submission process.

e) **Systemgeneratedacknowledgementreceiptforsuccessfulbidsubmission:**System will generate an acknowledgement receipt for successful bid submission. Thebidder should make a note of **'Bid** ID' generated in the acknowledgement receipt fortrackingtheirbidstatus.

6. Settlementof CostofTenderPaper;

a) **Cost of Tender Paper:** In respect of Government receipts on account of Cost of TenderPaper, the e-Procurement portal shall generate a MIS for the State Procurement Cell(SPC). The MIS will contain an abstract ofthe cost of tender paper collected withreference to Bid Identification Number. The State Procurement Cell shall generate Bank-wise-head-wise challans separately for Cost of Tender Paper and instruct the designatedBanks to remit the money to the State Government account under different heads. Inrespect of the cost of tender paper received through the e-procurement portal, theremittance to the Cyber Treasury account will be made to the Head of Account 0075-Misc, General Services-800-Other Receipts -0097-Misc. Receipts-02237-Cost of TenderPaper.

b) For the time being, the State Procurement Cell (SPC) will use over the counter paymentfacilityoftheOdishaTreasuryportal.Thereafter,remittancethroughNEFT&RTGSwillbefacilitated throughthe OdishaTreasuryportal.

c) Similarly, in case of State PSUs, Statutory Corporations, Autonomous Bodies and LocalBodies etc., **Cost of Tender Paper,** the e-Procurement portal shall generate a MIS forthe State Procurement Cell (SPC). The MIS will contain an abstract of the cost of tenderpaper collected with reference to **Bid Identification Number.** The State ProcurementCell shall generate Bank-wise list of challans and instruct the designated Banks to remitthe money through the Odisha Treasury portal. The cost of tender papers will be creditedto the registered Bank account of the concerned State PSUs, Statutory Corporations,AutonomousBodiesandLocalBodiesetc.

d) Bank will refund (in case the Tender Inviting Authority (TIA) issues such instructions) thetenderfee,EMDtothebidder,incasethetenderiscancelledbeforeopeningofBidasperdirection receivedfromTIAthroughe-procurementsystem.

e) Back-end Transaction Matrix of Electronic receipt of Cost of Tender Paper and EarnestMoneyDeposit on submissionofbidsisenclosed in theAnnexure.

7. SettlementofEarnestMoneyDepositon submissionofbids.

The Bank will remit the **Earnest Money Deposit on submission/cancellation of bids** torespective bidder's accounts as per direction received from TIA through e-procurementsystem.

8. ForfeitureofEMD:

Forfeiture of **EarnestMoneyDepositonsubmissionofbid**of defaulting bidder isoccasionedforvariousreasons.

a) In case the Earnest Money Deposit on submission of bid is forfeited, the e-Procurementportal will direct the Bank to transfer the EMD value from the Pooling Account of SPC totheregistered accountof thetenderinviting authority.

b) The Tender inviting authorities of the Government Departments will deposit the forfeited**Earnest Money Deposit on submission of bid,** in the State Government Treasuryundertheappropriatehead(8782-CashRemittancesandAdjustmentsbetweentheofficers rendering accounts to the same Accounts Officer-102- P.W.Remittances-1683-Remittances-91028-Remittances into Treasury) after taking the amount as a revenuereceiptintheirCashBookunderthehead0075-Misc.GeneralServices-00-101–UnclaimedDeposits-0097-Misc,Receipts-02080-Misc.DepositsandsubmitthedetailaccounttoDAG(Puri) asadeposit oftheDivision.

c) By clicking submit button, system will initiate the forfeiture of EMD. System will not allowthe evaluator to edit the initiation after clicking the submit button. Forfeiture option canbecarriedoutinphased mannerlikeonebidder at atime.

9. Roleof theBanks:

a) Make necessary provision / customizations at their end to enable the provision for onlinepayments/refundsasperthisdocument.

b) Provide necessary real-time message to bidders regarding successful or unsuccessfultransactionsduringonlinepaymentprocessesandredirectthemtoe-Procurementwebsitewithnecessary transactionreferencedetailsenablingthemtosubmittheirbids.

c) The bank shall ensure transfer of funds from the pooling account to the GovernmentHead/currentaccountofPSUs/ULBswithinthenextbankworkingdayasperthedirectionsgeneratedfrome-Procurementportal.

d) Bank should provide timely reports and reference details to NIC enabling them to carryouttheirroleasstatedbelow.

e) Refund of amount to bidders as per the XML file provided by e-Procurement system onthe next bank working day from the date of generation of the XML file and also provide aconfirmation toNIConthesame.

10. Roleof StateProcurementCell:

a) CommunicaterequirementsofGovernmentdepartments/StatePSUs/AutonomousBodies/ULBsonlinepaymentrequirementstoNationalInformaticsCentre/theauthorizedBanksformapping/customization.

b) Ineveryworking day, the State ProcurementCellshallgenerateMISfromthee-Procurementportaltoascertainthetenderpapercostreceivedinthee-Tenderingprocess separately

bank-wise for the Government Department and the PSUs/ULBs. TheSPC shall generate bank-wise separate online challans from the Odisha Treasury portaland make the remittance through over the counter facility or NEFT/RTGS (as and whenthis functionality is available in Treasury portal) and issue instruction to the bank forremittanceofthereceipttotheState Governmentaccount.

c) The State Procurement Cell shall be responsible for providing challan details and MIS inrespect of the remittance towards tender paper cost to the Tender inviting authorities fortheirrecord.

d) StateProcurementCellshallmonitortheprogressofe-TenderingbydifferentGovernmentdepartments/StatePSUs/AutonomousBodies/ULBsthroughanMIS.StateProcurementCellshallmonitorandsendmonthlyprogressreportstotheGovernment.

e) The e-Procurement system will generate a consolidated refund & settlement XML file asan end ofthedayactivity.

f) e-procurement system will provide a web service for payment gateway (PG) provider topulltheencryptedrefundand settlementdetailsin XMLfileagainstaday.

g) Similarly, payment gateway (PG) provider will provide a web service to pull the refundandsettlement statusagainst aday.

h) e-procurementsystem willupdatethestatusaccordinglyforreconciliationreport.

11. Roleof NationalInformaticsCentre:

a) Customize e-Procurement software and web-pages of Government of Odisha(https://tendersodisha.qov.in)toenabletheprovision forelectronicpayment.

b) TheNIC,Odishawillmodify/rectifytheerrorsinelectronicdatarelatingtotheChartofAccount.

c) NICwill provideaninterfacetoorganizationstodownloadtheelectronicreceiptdata.

d) Enable automatic generation of daily XML files from e-Procurement system and ensuredelivery of the same to the authorized Banks for enabling automatic refund/settlement offunds.

e) NIC shall enable the e-Procurement portal to generate MIS as required for the StateProcurement Cell in order to make remittance of the tender paper cost to the StateGovernmentaccount usingtheOdishaTreasuryportal.

12. Roleof CyberTreasury:

a) ThecostofthetenderpaperdepositedbytheSPCusingtheOdishaTreasuryPortalwhich willbeaccountedfor by theCyberTreasury and itshallsubmittheaccounts toA.G (O)aspertheestablishedprocess.

b) TheCyberTreasurywill provideMISasrequiredtotheSPCforthepurposeof accountingandreconciliationoftheelectronicremittancesmadetotheStateGovernmentaccount.

13. RedressalofPublicgrievances:

The State Procurement Cell, Odisha, National Informatics Centre, Odisha and the e-FPBwill have an effective procedure for dealing with, public complaint for e-Receipt relatedmatters. In case, any mistake is detected by any of the stakeholders in reporting ofreceipt of tender paper cost and EMD, either suomoto or on being brought to its notice,the State Procurement Cell, Odisha, National Informatics Centre, Odisha unit, CyberTreasury and the bank will promptly take steps for rectification. The e-Focal Point BranchoftheparticipatingBanks,NationalInformaticsCentre,OdishaandtheStateProcurement Cell, Odisha will notify the contact number and address of the Help Desk forresolution ofanydispute regardinge-Receipt.

14. Applicabilityandmodificationofexistingrules/orders:

The modalities prescribed in this Office Memorandum for downloading of tender paper,submission and rejection of bid, acceptance of Bids as well as refund and forfeiture ofearnestdepositwillbeapplicableforelectronicsubmissionofbidsthroughe-procurement

portal.Existingprovisionsregulatingcostoftenderpaper,earnestmoneydepositinOPWDCodeandOGFRwouldstand modifiedtothe extent prescribed.

15. These arrangements would be made effective after signing of MoU between the designatedBanks and the State Procurement Cell, firming up of Banking arrangements and technicalintegration betweendesignatedBankande-Procurement Portal.

ANNXURE-I

Back-endTransactionMatrixofElectronicreceiptandremittanceofCostofTenderPaperandEarnestMoneyDepositonsubmissionofbids.

	Cost of Tender Paper onsubmissionofBids	**EarnestMoneyDepositonsubmissionofbids**
Government Departments	I.Thepaymenttowardsthecostof TenderPaper,incaseGovernment Departmentsshallbe collectedin separatePoolingaccountsopenedin FocalPointBranchcallede-FPBof respective designatedbanks[as statedinPara2]atBhubaneswaron T+1_day.	I. In case of tenders of Government Departments, amount towards Earnest MoneyDepositonsubmissionofbidsshall becollectedinapoolingaccountopenedfor thispurposeatFocalPointBranchcallede-FPB of respective designated banks at Bhubaneswarandthebankswillremitthe amounttorespectivebidder'saccountwithin twoworkingdaysonreceiptofinstruction fromTIAthroughrefundandsettlementof e-procurementsystem.
	II.WithreferencetotheNotice InvitingTender/BidIdentification Number,theamountsorealizedis to be remitted to Government AccountundertheHeadOfAccount 0075-Misc.GeneralServices-800-OtherReceipts-0097-Misc.Receipts-02237-CostofTenderPaperthrough OdishaTreasuryPortalafteropening ofthebid.	II.IncaseofforfeitureofEarnestMoney Deposit on submission of bids, the e-ProcurementportalwilldirecttheBankto transfertheEMDvaluefromthePooling AccountofSPCtotheregisteredaccountof thetenderinvitingauthoritywithintwo workingdaysofreceiptofinstructionfrom TIA.
StatePSUs Statutory Corporations , Autonomous Bodiesand LocalBodies.	I.IncaseofStatePSUs,Statutory corporations, Autonomous Bodies andLocalBodiesetc.theamount towardsCostofTenderPaper,on submissionofbidsshallbecollected in separated pooling accounts openedinFocalPointBranchcalled e-FPB of respective designated BanksatBhubaneswaronT+1days.	I.AmounttowardsEMDonsubmissionof bidsshallbecollectedinaseparatepooling accountofFocalPoint Branch called e-FPBof respectivedesignatedbanksatBhubaneswar andthebankswillremittheamountto respectivebidder'saccountonreceiptof instructionfromTIAthroughrefundand settlementofe-procurementsystemwithin twoworkingdaysfromreceiptofsuch instruction.
	II.ThePapercostwillbetransferred totherespectivecurrentaccountsof concerned State PSUs, Statutory Corporation, Autonomous Bodies andLocalBodiesetc.afteropening ofbid.	II.IncaseofforfeitureofEarnestMoney deposit on submission of bids, the e-ProcurementportalwilldirecttheBankto transfertheEMDvaluefromthePooling AccountofSPCtotheregisteredaccountof thetenderinvitingauthoritywithintwo workingdaysofreceiptofinstructionfrom TIA.

DETAILEDTENDERCALLNOTICEFOR
BUILDINGWORKS
****

Sealed **percentage rate** bids are invited **ONLINE in Double cover system** from theclass of eligible contractors registered with the State Government and contractors of equivalentGrade / class registered with Central Government / MES / Railways having registration forexecutionofCivil worksonproductionof definite prooffromthe appropriate authority inprescribed form to be eventually drawn in P.W.D. FORM P-1 for the work **"Construction of new KGBV Hostel Building at Chhatrapur"**The adopted format for percentage rate is same as thatof the form adopted for item rate tenders but the word "Item rate" shall be replaced by"Percentage rate" and the contract will be named as P-1. Contractors not registered withGovernment of Odisha, should be registered under Odisha Government with required Class ofContractor asperTenderCallNoticebeforeaward ofcontract.

1. TheBiddocumentsareavailableintheofficialwebsiteofGovernment:**http://www.tendersorissa.gov.in**as per Contract Data and Tender Call Notice foronlinebidding.

2. TheBiddocumentswillbeopenedbytheassignedofficerintheofficeofthe**Panchayat Samiti**,**Nilgiri,Balasore**,OdishaasperContractDataandTenderCall Noticeinthepresenceofthebiddersortheirauthorizedrepresentatives whowishtoattend.

3. ThecostofBiddocumentsistoberemittedonlinefor**Rs 6000.00 as given in Tender Notice**towardscostof bid.

4. Thebidistobesubmittedinfollowingformats.
   I).Cover-I :-The scanned copy of registration certificate, PAN card, GST RegistrationCertificate (**alongwith online CDMS generated certificate is mandatory**) andGSTIN, undertaking/certificates duly filled-in and documents required as per therelevant clauses of this DTCN. (in .pdf format) along with price bid duly filled in andsignedbythebidder(in.xlsformat).
5. The bidder shall remit the EMD/ bid security online as part of bid of the amount asspecified in the Contract Data. Bidders desirous to hire machineries or equipment's fromoutside the State or owned but deployed outside the State are required to furnish theEMD/bid security online as specified in the Contract Data and as per the above terms andconditions.
6. The lowest preferred bidder is required to produce documents viz original Registration,GST Registration Certificate (along with online CDMS generated certificate), GSTIN, PANcard after opening of Technical Bid for verification purpose in the latter stage along withtheoriginaldocumentsrelatingtoownershipandhiringofplantsandmachineriesmentioned at Annexure-I of Schedule-C, within five days from the date of opening of thetender (price bid). Furnishing scanned copy of such documents is mandatory otherwisehis/herbid shallbedeclared asnon-responsiveandliableforrejection.

   Furnishings of original documents are mandatory, failing which the bid shall beliable for rejection. The action will be taken for non-furnishing of the original documentsasperclauseNo.126ofDetailedTenderCall*Notice.*

   Furnishing of such documents along with the Technical Bid is mandatory otherwisehis/herbidshallbedeclaredasnon-responsiveandthusliableforrejection.Noreference to

any documents of ownership and hiring and plant of machineries submittedinany previous tendercase willbe entertained. Contractor exemptedfor payment ofEMD will be availed to participate in the tender directly by uploading the documentaryevidencetowardshis/hereligibilityforsuchexemption.l2

7. The work is to be completed in all respects within the scheduled time as mentioned incontract data and tender call notice from the date of issue of work order. Bidders whosebidisacceptedmust submitaworkprogramme atthetimeof execution ofAgreement.

8. All tenders received will remain valid for a period of **90 (Ninety)** days from the last dateprescribed for receipt of tenders and validity of tenders can also be extended if agreed bythetenderersand the Department.

9.

I). If the Machineries are required then the Contractors are required to furnish evidenceof ownership of principal machineries/equipment in Schedule-C as per Annexure-Iforwhichcontractorshall**havetosecureminimum80%ofmarksforevaluationof Technical Bid** failingwhich thetendershallbeliableforrejection.

II). In case the contractor executing several works he / she is required to furnish a timeschedule for movement of equipment/machinery from one site to work site of thetenderedworkinAnnexure-IVofSchedule-C.

III). The contractor shall furnish ownership documents for those machineries which he /she is planning to deploy for the tenderedworkif these arenotengaged andproduce certificate from the Block Development Officeras per **Annexure – III ofSchedule-C** under whom these are deployed at the time of tendering as to theperiod by which these machines are likely to be released from the present contract.CertificatefromtheBlock Development OfficerofGovernmentofOrissaorEngineer-in-Charge of the project (in case of non-Government projects) under whosejurisdiction the work is going on, shall not be more than 90 days old on the last dateof receipt oftender.

IV). In-case the contractor proposes to engage machineries and equipment as asked forin the tender document, owned or hired but deployed outside the State, he/she isrequired to furnish additional 2% EMD /Bid Security. The entire bid security includingthe additional bid security shall stand forfeited in case the contractor fails to mobilizethemachineries.

V). Thecontractorintendingtohire/leaseequipment/machineriesarerequiredtofurnishproofofownershipfromthecompany/personprovidingequipment/machineries on hire/lease along with contracts/ agreements/lease deedand duration of such contract. The contracts/agreements/lease deed should be onlong term basis for a minimum period **as per contract data** from the last datereceiptofbid documents.

10. Anapplicantoranyofitsconstituentpartnersofwhosecontractforanyworkhasbeenrescindedorwho hasabandonedanyworkinthelastfiveyears,priortothedateofthe

bid, shall be debarredfrom qualification. The tenderer is to furnish anaffidavit at thetime of submission of tender paper about the authentication of tender documents. Anaffidavit to this effect is to be furnished in **Schedule-F.** Non furnishing of the scannedcopyofinformationin**Schedule-E**andrequiredaffidavitin**Schedule-F,**thebiddocument will be summarily rejected (The affidavit should be prepared on or after thedate of notification and on or before the last date of receipt of the Bid for the tenderedwork.)

11. NoRelationcertificate.

The contractor shall furnish a certificate along with the tender to the effect that he /she isnotrelatedto any officer inthe rank of anAssistant Engineer& above inthe Panchayati Raj and Drinking Water Department ,Odisha, Bhubaneswar/Under Secretary & above in the PR & DW Dept.,Govt. ofOdisha/ Office of the Zilla Parishad, Balasore. Ifthefact subsequently proved to be false, the contract is liable to be rescinded. The earnestmoney & the total security will be forfeited & he / she shall be liable to make good thelossordamagesresultingforsuchcancellations.ThePerformafornorelationshipcertificateiscontainedin aseparatesheetvideSchedule-A.

12. Each bidder is to submit along with bid a note regarding his experience on construction ofRoad/ Bridge/ Building Works.

a) NameoftheRoad/Building/Bridge:-
b) EstimatedCost:-
c) TotalLength:-
d) MajorItemofworks:-
e) Quantityofitems i)AsperAgreement:-
ii)Asperexecution:-
f) DateofCommencement:
g) StipulateddateofCompletion:-
h) Actual dateofcompletion:-
i) Otherdetailsifany.: -

13. Ifanindividualmakestheapplication,theindividualshouldsignabovehisfulltypewritten nameand current address.

14. Iftheapplicationismadebyproprietaryfirm,itshallbesignedbytheproprietorabovehisfulltypewritten nameandthefullnameof hisfirm with itscurrentaddress.

15. If the application is made by a firm in partnership, it shall be signed by all the partners ofthe firm above their full type written names and current address, or alternatively by apartner holding power of attorney for the firm in which case a certified copy of the powerof attorney shall accompany the application. A certified copy of the partnership deed andcurrentaddress ofall partners ofthe firmshallalsoaccompanytheapplication.

16. If the application is made by a limitedcompany or a corporation, it shallbe signedbyduly authorized personholdingpower of attorneyfor signing the application inwhichcase a certified

copy of the power of attorney shall accompany the application. Suchlimited company or corporation will be required to furnish satisfactory evidence of itsexistencealong withthetechnicalbid.

17. The tendershouldbestrictly inaccordancewiththe provisionsas mentionedinthetender schedule.Anychangeinthewordingswillnot beaccepted.

18. No bidder will be permitted to furnish their bid in their own manuscript papers. Allinformation should be submitted in English. The applicants name should appear on eachpage of the applicationalongwithhis signature or the signatureof his authorizedrepresentativeat thebottomofeachpage.

19. Submission of more than one tender by a bidder for a particular work will liable forrejection ofallsuchtenderpapers.

20. Percentage rate contract (vide Works Department letter no.8310 dt.17.05.2006and Works Department O.M 7885 Dt. 23.07.2013and In case of Percentage Ratetender:-

I). Thecontractorhastoquotepercentageexcessoverorlessthantheestimatedcostin the prescribed format appended to the tender document. The estimated cost isexcluding GST. The rates of item basing on which estimated cost has been derivedare excluding GST on different components to arrive at such rates. Bidders are tosubmitonlytheoriginalBOQ(BillofQuantities)in.xlsformatuploadedbyProcurement officer, Publisher (Officer inviting tender) after entering the relevantfields without any alteration / deletion / modification. Multiple BOQ submission bybiddershalllead tocancellationofbid.

II). TheContractorsparticipatedinthetenderformorethanoneworkmayofferconditional rebate. Rebate offer submitted in separate letter duly scanned shall beopened, declared and recorded first. The rebate so offered shall be considered afteropening of all packages called in the same Tender Notice. The Contractors who wishtotender fortwo ormoreworks shallsubmitseparatetenderforeach.

III). The Contractor will quote percentage excess/less up to two decimal pointsonly. If he writes the percentage excess/less up to three or more decimalpoints, the second decimal point shall only be considered without roundingoff as perWorks DepartmentO.M7885 Dt. 23.07.2013.

IV). In the contract P-1 time is the essence. The contractor is required to maintain acertain rateofprogress specified inthecontract.

V). The quantity mentioned can be increased or reduced to the extent of 10% forindividual items subject to a maximum of 5% over the estimated cost. If it exceedsthe limit stated above prior approval of competent authority is mandatory beforemakinganypayment.

VI). The period of completion is fixed and cannot be altered except in case of exceptionalcircumstanceswithdueapprovalofnexthigherauthority.

VII). Billsforpercentageratetendersshallbepreparedattheestimatedratesforindividual items only and the percentage excess or less shall be added or subtractedfromthegrossamountofthebill.

VIII). GST as applicable on works contract shall be paid over the bill amount at the time ofpayment ofbill.

21. The bidder shallcarefully study the tentative drawings and specifications applicable tothe

contract and all the documents which will form a part of the agreement to be enteredin to by the accepted bidder and detailed specifications for Orissa and other relevantspecifications and drawings which are for sale. Complaint at a future date that plans andspecificationshavenotbeenseenby thebidderscan't beentertained.

22. The drawings if any furnished with the bid are tentative and subject to revision ormodification as tendered during the execution as per actual necessity and detail testconducted. But the tendered rate quoted by the bidder will hold good in case of suchmodification of drawings during the time of execution and shall in no way invalidate thecontractandnoextramonetarycompensationwillbeentertained.Theworkshallhowever be executed as per final approved drawing to be issued by the Engineer-in-Chargeasand whenrequired.

23. Every bidder is expected before quoting his/ her rate to inspect the site of the proposedwork. The bidder should also inspect the quarries and approach roads to quarries andsatisfy himself/themselves about the quality and availability of materials. In every casethe materials must comply withthe relevantspecifications. Complaints at future datethattheavailabilityofmaterialsatquarrieshasbeenmisjudgedcan't beentertained.

24. The offer of bidder shall be inclusive of cost of construction and maintenance of island,ferry service, fair-weather road, service road, Foot Bridge, pylon base, winch stand andderrickstandetc.as required forthework.

25. It must be definitely understood that the Government does not accept any responsibilityfor thecorrectnessand completeness ofthetrialboringsshown intheCrossSection.

26. Additional Performance Security shall be obtained from the bidder when the bidamount is less than estimated cost put to tender. In such an event, only the successfulbidder who has quoted less bid price/ rates than the estimated cost put to tender shallhave to furnish the exact amount of differential cost as Additional Performance Security (APS) in shape of TermDeposit Receipt pledged in favour of the Block Development Officer, Nilgiri withinsevendays,otherwise the bid shallbe cancelled and the security deposit shallbeforfeited. Further,proceeding for blacklistingshallbe initiatedagainstbidder asperWorks DepartmentOfficeMemorandumNo.4559dtd.05.04.2021.

If the Contractor fails to complete the work, the amount so furnished as additionalperformance security will be forfeited in addition to the other penal clauses, if any to beimposed.

.

27. Incaseofanydiscrepancyinprintingoromissionsofstatutoryspecificationsoranyother part or portion ofthe approveddocumentduring download ofthe bid document,thedecision oftheofficerinvitingthebidwillbebinding on thebidder.

28. The tender containing extraneous conditions not covered by the tender notice are liablefor rejection and quotations should be strictly in accordance with the tender call notice.Anychangeinthewordingwillnot beaccepted.

29.

I). Schedule of quantities are accompanied in (Price Bid). It shall be definitelyunderstoodthattheGovernmentdoesnotacceptanyresponsibilityforthecorrectness

or completeness of this schedule and that this schedule is liable foralternation or omissions, deductions or alternations set forth in the conditions of theContract and such omissions, deductions, additions or alternations shall no wayinvalidatethecontractandnoextramonetarycompensation,will beentertained.

II). The quantity mentioned can be increased or decreased to the extent of **10%** forindividual items subject to a maximum of **5%** over the estimated cost. If it exceedsthe limit stated above, prior approval of competent authority is mandatory beforemakinganypayment.

30. Theauthorityreservestherighttorejectanyorallthetendersreceivedwithoutassigninganyreasonsthere-ofwhat soever.

31. Thebidsecurity(earnestmoney)willberetainedanddealtwithasperthetermsandconditionsofthe OPWDCode.

32.

I). Thebidder/tendererwhosebidhasbeenacceptedwillbenotifiedoftheawardbythe Engineer-in-charge prior to expiration of the validity period by cable, telex orfacsimile confirmed by registered letter. This letter (hereinafter and in the conditionsof Contract called the "Letter of Acceptance") will state the sum that the Engineer-in-charge will pay the contractor in consideration of the execution, completion andmaintenanceoftheWorksbythecontractorasprescribedbythecontract(Hereinafterand in thecontractcalledthe"ContractPrice").

II). The Notification of award will constitute the formation of the contract, subject only tothe furnishing of a performance security (Initial Security Deposit) and **additionalperformance security as per clause 26 of DTCN** in form of Fixed Deposit receiptofKissanVikashPatra/PostOfficeSavingsBankAccount/NationalSavingsCertificate/ PostOfficeTimeDepositAccount/BankGuaranteefromanyNationalized bank, duly pledged in favour of the **Block Development Officer,Nilgiri**and in no other form, which including the amountalready deposited as bid security (earnest money) shall be **2%** of the value of thetenderedamount(excluding2%depositedtowardshiringofequipment /machineriesfromoutsidethestateifany)andsigntheagreementintheP.W.D.form No. **P-1 (Schedule XLV No. 61)** for the fulfillment of the contract in the officeof the **Block DevelopmentOfficer,Nilgiriand payableatNilgiri.**Thesecuritydeposittogetherwiththeearnestmoneyandtheamount withheld according to the provision of **P-1** agreement shall be retained assecurity for the due fulfillment of this contract and additional performance security inaccordancewiththeprovisionsoftheagreement.

III). The agreement will incorporate all correspondence between the officer inviting thebid/Engineer-in-Charge and the **successful bidder within 10 days** following thenotification of award along with the Letter of Acceptance, the successful bidder willsign the agreement and deliver it to the Engineer-in-Charge. Following documentsshallformpart oftheagreement.

a) Thenoticeinvitingbid,allthedocumentsincludingadditionalconditions,specifications and drawings, if any, forming the bid as issued at the time ofinvitation of bid and acceptance thereof together with any correspondenceleading thereto & required amount of performance security including additionalperformancesecurity.

b) Standard P.W.D. Form P-1 with latest amendment

Clause-2 (b) of Percentage Rate P-1 Agreement: - Rescission of Contract(Amendment as per letter No.10639 dt.27.05.2005 of Works Department,Odisha)

IV). Failure to enter in to the required agreement and to make the security deposit asaboveshallentailforfeitureoftheBidSecurity(earnestmoney).Nocontract(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 security will be refunded after one year of completion of the work and paymentofthefinalbilland will notcarryanyinterest.

V). As concurred by Law Department & Finance Department In their U.O.R. No 848dtd.21.05.97J.O.R.No.202W.F.D.dtd.06.03.98respectivelytheE.M.D.willbeforfeited in case, where bidders/tenderers back out from the offer before acceptanceoftenderbythecompetent authority.

33. Thatforthepurposeofjurisdictionintheeventofdisputesifanyofthecontractwouldbe deemed to have been entered in to within the State of Odisha and it is agreed thatneither party to the contract will be competent to bring a suit in regard to the matter bythiscontract at anyplace outsidetheState ofOdisha.

34. Thecontractorshouldbeliabletofullyindemnifythedepartmentforpaymentofcompensation under workman Compensation Act. VIII of 1923 on any account of theworkmen employed by the contractor and full amount of compensation paid will berecoveredfromthecontractor.

35. Bidders are required to abide by the fair wages clause as introduced by Govt. of Odisha,Works Department Letter No.-VIII-R 8/5225 Dtd. 26.02.55 and No.IIM-56/628842(5)Dtd.27.09.61asamendedfromtimetotime.

36. In case of any complaint by the labour working about the non-payment or less paymentof his wages as per latest minimum Wages Act, the District Project Coordinator will havethe right to investigate and if the contractor is found to be in default, he may recoversuch 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 childlabour.ThedecisionoftheBlock Development Officerisfinal andbindingonthecontractor.

37. Thecontractorshallbearcostofvariousincidentals,sundriesandcontingenciesnecessitated by work in full within the following or similar category as per rule time totime fix by Govt. Rent, royalties and other charges of materials, octroi duty, all othertaxes including sales tax, labour cess ferry, tolls conveyance charge and other cost onaccountoflandandbuildingincludingtemporarybuildingandtemporaryelectricconnection to work site as well as construction of service road and diversion road and itsmaintenance till completion of work as required by the bidders for Collection of materials,storage, housing of staff or other purpose of the work. No bidder will however be liable topayGovt.fortemporary

occupation oflandownedby Govt.atthesiteofthe work.

I). Labour camps or huts necessary to a suitable scale including conservancy andsanitaryarrangementsthereintothesatisfactionofthelocal healthauthorities.

II). Suitable water supply including pipe water supply wherever available for the staffandlabouraswellasforthework.

III). Feesanddutiesleviedbythemunicipal,canalorwatersupplyauthorities.

IV). Suitableequipmentandwearingapparatusforthelabourengagedinriskyoperations.

V). Suitablefencingbarriers,signalsincludingparaffinandelectricsignalwherenecessary at works and approaches in order to protect the public and employeesfromaccidents.

VI). Compensation including the cost of any suit for injury to persons or property dueto neglect of any major precaution also become payable due to operation of theworkmencompensationact.

VII). The contractor has to arrange adequate lighting arrangement for the work whereevernecessaryathisowncost.

38. After the work is finalized, all surplus materials should be removed from the site of work.Preliminary work suchas vats,mixingplatforms etc.shouldbe dismantledand allmaterialsremovedfromthesiteandpremisesleftneatandclean,thisshouldbeinclusiveoftherate.

39. No payment will be made for bench marks, level pillars profiles and benching and levelingthe ground where required. The percentage rate to be quoted should be inclusive ofcarriageofallmaterialsandincidental item ofworks.

40. It should be understood clearly that **no claim what-so-ever will be entertained toextra items of works, extra quantity of any item besides agreement quantityunless written order is obtained from the Engineer-in-charge and rate settledbefore the extra items of work or extra quantity of any items of work is takenup**.

41. The bidder shall have to abide by the C.P.W.D. safety code rules introduced by theGovernment of India, Ministry of work Housing and Supply in their standing order No-44150dtd.25.11.57.

42. Bid documents consisting specifications, the schedule of quantities and the set of termsandconditionsofcontractandothernecessarydocumentscanbeseeninthee-procurement portal till last date of sale and receipt of bid documents. Interested biddersmay obtain further information at the same address. But it must be clearly understoodthatthebidsmustbe receivedinorderandaccordingtotheinstructions.

43. Bidders are required to go through each clause of **P.W.D. Form P-1** carefully in additiontotheclausementionedhereinbeforetendering.Incaseofambiguity,theclausesof P.W.DFormP-1withlatestamendmentsshallsupersedetheconditionofD.T.C.N.

44. All reinforced cement concrete work should conform to IRC Code and Bridge Code sectionI,II,III,IVandVII&latestdesigncriteriaforprestressedconcretebridgesspecificallyfor road and bridges issued by MoSRT&H, Govt. of India. MoSRT&H Specification for Road&Bridgework(LatestRevision)shallbetheguidingbookforexecution,qualityassurance,

specification andmeasurementfor allitemsofRoad &Bridgeworks.

45. Steel shuttering & centering shall be used which shall be lined with suitable sheeting andmadeleakproofandwatertight.

46. The Department will have the right to inspect the scaffolding, centering and shutteringmade for the work and can reject partly or fully such structures if found defective in theiropinion.

47. Concrete should be machine mixed unless otherwise ordered in writing by the DistrictProject Coordinator. The contractor should arrange his own concrete mixer, vibrator, andpumpsetc. forthispurposeathisowncost.

48. Cement shall be used by bags and weight of one bag of cement being taken as fifty (50)Kg.

49. The bidder should arrange the materials like Steel, Cement, paint and bitumen etc. ofapproved quality and specification at his own cost for completion of the work with thetimeschedule.Noextensionoftimewillbegrantedontheapplicationofthebidderduetodelayinpro curement ofmaterials.

50. The bidder will be responsible for the loss or damage of any departmental materialsduring transit and in the execution of the work due to reasons what – so-ever and thecost of such materials will be recovered from the bills at stock issue rates or market rateswhicheverishigher.

51. If the bidder removes Government materials supplied to him from the site of work with aview to dispose of the same dishonestly, he shall be in addition to any other liability civilor criminal arising out of his contract be liable to pay a penalty equivalent to five times ofthe price of the materials according to the stock issue rate or market rate whichever ishigher. The penalty so imposed shall be recovered at any time from any sum that maythen or at any time thereafter become due to the bidder or from his security deposit orfromtheproceedsofsalethereof.

52. The selected bidder may take delivery of departmental supply according to his need forthe work issued by the Sub-Divisional office in-charge subject to the availability of thematerials. The bidder shall make all arrangement for proper storages of materials but nocost for raising shed for storage, pay of watchman etc. will be borne by the Department.The Department is not responsible for considering the theft of materials at site. It is thecontractor's risk. Under any such plea if the bidder stops the work, he shall have to paythefullpenaltyasperclauseofP-1agreement.

53. The Department will have the right to supply at any time in the interest of work anydepartmentalmaterialstobeusedintheworkandthecontractorshallusesuchmaterials without any controversy or dispute on that account. The rate of issue of suchmaterials will be at the stock issue rates inclusive of storage charges or rates fixed by theDepartmentorcurrentmarket

ratewhicheverishigher.

54. All the materials which are to be supplied from P. W. D. store will be as per availability ofstock and the contractor will have to bear the charges of straightening, cutting, jointing,welding etc. to required sizes in case of M. S. Rods or Tor steel/M.S Angles, Tees andJoists etc. After issue from the P. W. D. store the materials may be under the custody ofthecontractorandthecontractor willberesponsibleforitssafetyand storage.

55. Though Departmental issue of cement and steel has indicated, it may not be taken asbinding. The contractor must have to arrange by themselves cement, steel, bitumen andevery sort of materials from approved manufacturer, get it tested in the DepartmentalLaboratoryandapproved bythe Departmentbeforeuse.

56. TOR rods, plates and structural members will be supplied in quantity, length and sizeavailable in the stock. For payment of reinforcement, the steel including plates etc. shallbe measured in length of different diameter, size and specification as actually used(including hooks and cranks) in the work correct to an inch or cm. and their weightcalculated as per sectional weight prescribed by the Indian Standard Specification or asdirectedbythe Engineer-in-Charge.

57. The tentative alignment of the proposed bridge has been shown in the enclosed drawing.However, the department has got the right to shift the actual bridge position within areasonablerangeinbothU/sandD/s.

58. The contractor should at his own cost arrange necessary tools and plants required for theefficient execution of work and the rates quoted should be inclusive of the runningcharges ofeach plant and costofconveyance.

59. After completion of the work the contractor shall arrange at his own cost all requisiteequipment for testing one unplugged well and specified span free of cost as directed bytheEngineer-in-Chargeandbearthe entirecostofthetest.

60. Measurement of earth work in road embankment will be done by section measurementafter the earth is consolidated including rolling with hand or power road roller and sheepfoot roller at optimum moisture condition and no extra payment will be made for thejungle clearance for taking earth from the borrow areas. Earth work from cutting shall beeconomicallyutilizedinfilling.

61. The stack of road metal and gravel will be measured in boxes of 1.5m × 1.5 M × 0.5Mwhich will be taken as 1.5m × 1.5M × 0.44M = 1 Cum. The soling stones will bemeasured in the suitable stacks with deduction for voids @ 1/6 of volume or moredependinguponthelooseness ofstackingwhichwouldbedeterminedonactualobservation and deduction.

62. The machineries, if available, with the department may be supplied on hire as per normalhire

charges of Government in force at the time of execution of work subject to thecondition that the contractor will execute in advance an agreement with the Engineer-in-Charge.

63. Intheeventof any delay inthesupplyofDepartmentroadrollerforunavoidablereasons,noextensionoftimewill begrantedtothecontractorunder anycircumstances.

64. Gradationofingredients:-Thecoarseandfineaggregateshallmeetthegraderequirement as per the latest provisionofrelevantIS code /IRCcode /MoRT&Hspecifications.

65. Shrinking of wells shall be measured as per MoSRT&H Specifications for Road &Bridgeworks(Latest Revision).

66. All method of sinking including pneumatic sinking by employment of divers and otherequipment shall be included in the rate. Removal of trees, logs of trees or isolatedboulders and de-silting of sand or earth from existing well, rectification of tilt and shift ifany,etc.shallalsobe included withintherate.

67. Thedepthoffoundationindicatedonthedrawingareprovisionalbutthesemaybealtered if necessary in the light of the nature of strata indicated by boring which must betaken inadvanceofactualexecution ofthefoundation.

68. When resort has to be made for sinking the wells by air lock and vacuum chambermethodratesthereofshallbepre-decidedbyauthorityacceptingthetender.

69. Construction of coffer dam or island or the work of open excavation or dressing or labourforlayingwellcurbsshallbeincluded in therate.

70. Forconcretingthebottomplugsofwellunderthemethodofprovidingconcreteshouldbe either with tremie or any other approved method as well be directed by the Engineer-in charge with 10% extra cement to be usedfor under water concreting without anyextracosttotheDepartment.

71. No claim will be entertained in respect of difficulties during sand blowing met with duringsinkingofwells.

72. No part of the bearing for the superstructure shall be allowed to rest on the noses of thepiers.

73. TORSteelmeshreinforcementshallbeprovidedintheconcreteofthegirdersonthecaps of the piers abutments immediately in contact with the bearing to ensure properdistributionsofheavyload.

74. Lugs and grooves shall be provided in the bearings to prevent them from skewing andgettingout ofalignment.

75. Inspection by the Director General of Supplies and Disposals of the bearing duringmanufacture and X-Ray or Gama Ray examination of castings thickness more than 8inches and load testing of bearing if considered necessary shall have to be carried out atthe contractor's cost .The same procedure for testing may have to be followed for

ribbedbearingmanufactured bywidening.

76.

I). It should be clearly understood that the joints of the bars are to be provided withlapping,weldsorbolts nutsaswillbedirectedbytheEngineer-in-charge.

II). Concrete test specimens 150mm × 150mm × 150mm in size (whether plain orreinforced concrete) for the testing shall be taken for each structural member bya representative of the contractor in the presence of responsible officer of therank not lower than that of an Assistant Engineer or sub-Divisional Officer. Thecontractor shall bear the cost so involved in testing. The test specimen in cubeshouldbecarriedoutintheDepartmentalQualityControlandResearchLaboratory of Cuttack or Bhubaneswar. Test should be carried out in accordancewith thestipulationinBridgescodesection-III.

III). Test specimens shall be formed carefully in accordance with the standard methodof taking test specimenand no plea shallbe entertained later on the groundsthat the casting of the test specimen was faulty and that the result of thespecimendidnotgivea correct indication oftheactualqualityofconcrete.

IV). Plain concrete and reinforced concrete specimens will be tested in GovernmentTest Houses atAliporeorQualityControlandResearchLaboratoryatBhubaneswar. Cost of testing of all specimens and samples will be borne bytheContractor.

V). The construction of well staining by injecting cement or grout in coarse aggregateplacedinpositionshallnot bepermitted.

77. ThethicknessofcementconcreteintoppluggingshouldbeasperDepartmentaldrawing.

78. In well sinking, the maximum tolerance permissible in tilt is 1:80 and the shift is 150mmto the normal direction. Where it is not feasible to work these tolerance the contractorshall carry out. suitable remedial measures as may be directed by the Engineer-in-chargetoovercometheadverseeffectsoftiltsandshiftswithoutanyextracosttotheDepartmentandwithoutanydamagestothewell.Anyadditionalworknecessaryconsequent upon the excess tilt and shift shall be carriedout by the contractor at noextracosttotheDepartment.

79. Concrete of strength below of the required strength (as determined by actual tests) shallnotbeaccepted.

80. If the well is beyond rectification the well shall be rejected, the well has to be abandonedand another well to be sunk at a suitable location at the cost of the Contractor. The tiltand shift of the well including compensation is to be abided as per the clauses ofMoSRT&H SpecificationforRoads&Bridgeworks(LatestRevision).

81. Noclaimforcarriageofwaterwhat-so-everwillbeentertained.

82. The contractor shall employ one or more Engineering Graduate or Diploma holders asapprentice at his cost if the work as shown in the tender exceeds Rs.2,50,000/-.TheapprenticeswillbeselectedbytheChiefEngineer.Theperiodofemploymentwillcommence within one month after the date of work order and would last till the date,when 90% of the

work is completed. The fair wage to be paid to the apprentices shouldnotbelessthantheemolumentofpersonnelofequivalentqualificationemployedunder

Government. The number of apprentices to be employed should be fixed by the ChiefEngineer in the manner so that the total expenditure does not exceed one percent of thetenderedcost ofthe work.

83. **Super class contractor** shall employ under himself two Graduate Engineer and twoDiploma holders belonging to the State of Orissa. Special class contractor shall employunder him one graduate Engineer and two Diploma Holder belonging to the state ofOrissa.**Likewise'A'classcontractorshallemployunderhimoneGraduateEngineer or two Diploma Holders belonging to state of Odisha**. The contractor shallpay to the Engineering personnel monthly emoluments which shall not be less than theemoluments of the personnel of equivalent qualification employed under the State Govt.of Orissa. The Engineer-in Chief (Civil), Orissa may however assist the contractor withnames of such unemployed Graduate engineers and Diploma Holders if such help issought for by the contractor .The names of such Engineering personnel appointed by theContractorsshould be intimated to the tenderreceiving authority along with the tenderas to who would be supervising the work. Each bill of the Super Class, Special Class or 'A'ClassContractorshallbeaccompaniedbyanemploymentRolloftheEngineeringpersonnel together with a Certificate of the Graduate Engineer or Diploma Holder soemployed by the contractor to the effect that the work executed as per the bill has beensupervised by him. (Vide Works Department No. Codes M-22/91-15384 dated 9.7.91).The required certificate is to be furnished in the Performa contained in a separate sheetvideSchedule-B.

84. It is the responsibility of the contractor to procure and store explosive required forblastingoperation.Departmentmayrendernecessarypossiblehelpforprocuringlicense.

85. Deleted

86. **Amendment of existing Clauses :-** By admission of a tender for the work, a tendererwill be deemed to have satisfied himself by actual inspection of the site and locality of thework, about the quality and availability of the required quantity of material including thewheat/ rice referred to above, medical aid, labour and food stuff etc., and that ratesquoted by him in the tender will be adequate to complete the work according to thespecifications attached there to and that he had taken in to account all conditions anddifficultiesthatmaybeencounteredduringitsprogressandtohavequotedratesincluding labour and materials with taxes , octroi, other duties, lead, lifts, loading andunloading, freight for all materials and all other charges necessary for the completion ofthe work, to the entire satisfaction of the Engineer-in –Charge of the work and hisauthorized subordinates. After acceptance of the contract rate Government will not payanyextrachargesforanyreasonincasethecontractorclaimslaterontohavemisjudgedasregard availabilityofmaterials, labourandotherfactors.

87. The prevailing percentage of I. T. Department of the gross amount of the bill towardsincometaxwillbededucted fromthe contractor's bill.

88. Prevailing rate of TDS on GST as applicable under act on the gross amount of the bill willbededucted from thecontractor'sbill,astaxdeduction atsource(TDS)asper rule.

89. Construction Workers Welfare Cess @ 1 (one) % of the amount of estimated cost put totenderaspertendernotificationandinconformitywith latestLabourEmploymentDepartment Circular will be proportionately deductedfrom the contractor's bill at thetimeofmaking payment.

90. The contractor is required to pay royalty to Govt. as fixed from time of time and producesuch documents in support of their payment to the concerned District Project Coordinatorwiththeir bills, falling whichthe amounttowardsroyalties of different materials asutilized by them in the work will be recovered from their bills and deposited in therevenueofconcerned department.

91. Under no circumstances interest is chargeable for the dues or additional dues if anypayableforthe work.

92. Undersection12ofcontractorslabour(RegulationandAbolition)Act.1970thecontractor who undertakes execution of work through labour should produce valid licensefromlicensing authoritiesof labourDepartment.

93. Sample of all material - The contractor shall supply sample of all materials fully beforeprocurementfortheworkfortestingandacceptanceasmayberequiringbytheconcernedDistri ct ProjectCoordinator.

94. TrialBoring-
Thefoundationlevelasindicatedinthebodyofthedepartmentaldrawingis`purelytentativeandforthe generalguidanceonly.TheDepartmenthasnoresponsibilityforthesuitabilityofactualstrataatthefou ndationlevel.Thecontractorhas to conduct his own boring before starting the work and get the samples tested at hisown cost to ascertain the S.B.C. and credibility of the strata at founding level. Whilequotinghisratesfortenderthecontractorshalltakein toaccountoftheabove aspects.

95. Any defects, shrinkage or other faults which may be noticed within **12(twelve)** monthsfromthecompletionof
theworkarisingoutofdefectiveorimpropermaterialsorworkmanship timing are upon the direction of the Engineer-in-Charge to be amended andmade good by the contractor at his own cost unless the Engineer for reasons to berecorded in writing shall be decided that they ought to be paid for and in case of defaultDepartment may recover from the contractor the cost of making good the works. Thedefect liability period for the work is **12 (twelve) calendar months** from the date ofsuccessfulcompletionofthework.

96. From the commencement of the works to the completion of the same, they are to beunder the contractors charge. The contractor is to be held responsible to make good allinjuries, damages and repairs occasioned or rendered necessary to the same by fire orothercausesandtheyholdtheGovt.ofOrissaharmlessforanyclaimsforinjuriesto

person or structural damage to property happening from any neglect, default, want ofproper care or misconduct on the part of the contractor or any one in his employmentduring the execution of the work. Also no claim shall be entertained for loss due toearthquake, flood, cyclone, epidemic, riot or any other calamity whether natural orincidental damages so caused will have to be made good by the contractor at his owncost.

Regarding wholesale price Index (WPI) for appropriate commodity for payment ofprice adjustment, due to change of base year of WPI from 1993-94 to 2004-05 & 2011-12, it is observed that, the commodity 'Bars and Rod', 'Cement', 'Heavy machinery andparts' included in the list of WPI 1993-94 series are not mentioned as such in the WPI2004-05 & 2011-12 series. Therefore, the following items in the WPI 2004-05 & 2011-12seriesshallbeconsidered correspondingtoitemsinWPI1993-94series:

Sl.No.	**ItemінWPI1993-94 Series**	**ItemінWPI2004-05 series**	**Item in WPI 2011-12 series**
1	Cement	GreyCement	OrdinaryPortlandcement
2	Bars&rods	Rebars	Mildsteellongproducts
3	Heavy Machinery & parts	ConstructionMachinery	Manufactureofmachineryformining, quarrying & construction.

AppendixtoBid

Scheduleof AdjustmentData

[For all works, adjustment factor for Labour and POL shall be considered @ 5% each, Steel,Cement, Pipes, Other materials and Machinery shall contribute to 90% of Price Adjustment andshallbecalculatedforeachworkseparatelyduringpreparationofestimate,shallbeapprovedby the authority during technical sanction as a "Schedule of Adjustment Data" and shall formpartofthe Bid Document].

Cl.No-31 of F2/P1 contractsSl No.	**Indexdescription**	**SourceofIndex**	**Basevalue***	**Base Date ***	**Weightage ofItem****
31 (a) (i)	Othermaterials	All India Whole sale price (all indexcommodities) as the published byEconomicAdvisortotheGovt and of India, Ministry of Commerce Industry			62.20%

31 (a) (ii)	Cement	WholesalepriceindexforCement(OrdinaryPortlandCement)aspublishedby the office the Economic Advisor to theGovt.ofIndia,MinistryofCommerceand Industry.			10.82%
31 (a) (iii)	Steel	WholessalepriceindexforSteel(MildSteel-LongProducts)aspublishedbythe Officeof theEconomicAdvisor totheGovt.			16.26%

		of India, Ministry of Commerce and Industry.			
31 (a) (iv)	Bitumen (VG-30)	Officialretailpriceofbulkbitumenatthe nearestIOCL/HPCLdepot			0%
31 (a)(v)	Pipes	Whole sale price index for the type of pipeunder consideration, as published by theofficetheEconomicAdvisortotheGovt.of India,MistryofCommerceand Industry			0%
31 (b)	Labour	MinimumwagesnotifiedbytheLabourand Employee'sStateInsuranceDepartmentofGov ernmentof Odisha,India.			5.00%
31 (c)	POL	OfficialretailpriceofHSDatnearest IOCL/HPCL/BPCLConsumerpumpdepot			5.00%
31 (d)	Plant &Machiner y	Whole sale price index for Manufacture andmachineryforMining,QuarryingandConst ruction as published by the office theEconomicAdvisortotheGovt.ofIndia, MinistryofCommerceandIndustry.			0.72%
			Total		100.00%

*Valuestobefilledupatthetimeofdrawlofcontract.

** Valuestobefilledupin thebiddocument.

97. For diversion road the contractor will have to make his own arrangement to make thesame in private land if necessary for which agreement of such land by the side of C.D.works and the rental charges for such private land shall be borne by the contractorincluding the proper maintenance with lighting arrangements during the night time andsignalingduringdaytimeandbarricadingetc.tilltheC.D.worksareopenedtothetraffic. No extra cost will be paid to the contractor for the above rental charges etc. Hisrateinthetendershallincludethisarrangement,rentalchargesforthelandandmaintenance, lighting and removal of such temporary road crust from the private land tobringthelandtoitsoriginalconditionetc.complete.

98. The contractor has to arrange the land required for borrowing earth if necessary for theroad work at his cost. No extra payment by the Department will be made on this accountand no claim what-so-ever will be entertained on this ground. The rate quoted by thecontractorshould beinclusiveofallsuchcharges.

99. Where it will be found necessary by the Department, the Officer-in-Charge of the workshall issue an Site Order book to the contractor to be kept at the site of the work withpages serially numbered. Orders regarding the work whenever necessary are to beentered in this book by the P.W.D. Officer-in-Charge with their dated signatures and dulynoted by the contractor or his authorized agents with their dated signature. Ordersenteredinthis book and notedby

thecontractor’s agentshallbe consideredto havebeen duly given to the contractor for following the instructions of the Department. TheSiteOrderBookshallbethepropertyoftheP.W.D.andshallnotberemovedfromthe

siteofworkwithoutwrittenpermissionoftheEngineer(Block Development Officer)andtobesubmitted tothe Engineer-in-charge everymonth.

100. The bidder should conduct three bores at each pier and S.B.C. of soil at foundation leveland abutments location and furnish the test results in conformity with I.R.C. code at hisown cost before execution of the work and rate quoted by the contractor should beinclusiveofsuchboresandS.B.C.testsetc.withoutanyextra costto theDepartment.

101. Thedetailsoffoundation,sub-structureandfloorprotectionforexecutionshallbedonein accordancewiththetestresultsthusobtained.

102. The contractor shall have no claim what so ever for the extra quantity of work to beexecutedinviewofabovepossiblechangesandpaymentsistobemadeasperClause11 ofthe**P-1**Contract.

103. Over and above these conditions, the terms and conditions and rules and regulations andspecificationsaslaiddowninOrissaP.W.D.Code,BridgecodeandMoSRT&HSpecifications with latest revision / amendment are also binding on the part of thecontractor.

104. No partof the contract shall be sublet without writtenpermission of the concernedBlock Development Officer or transfer be made by power of Attorney authorizing otherstoreceivepaymentonthecontractor'sbehalf.

105. ThecontractorshouldattachthecertificateintokenofpaymentdepositwiththeregistrationauthorityasperrecentcircularoftheGovernmentrelatingtohisregistration.

106. Any damages caused by natural calamities should be done by the contractor at his owncost. The Department will not be any way responsible for the same and will not pay anycosttowardsthe repairdonebythe contractor.

107. The rate quoted by the contractor shall cover the latest approved rates of labours,materials, P.O.L. and Royalties. Arrangement of borrow areas; land, approach road to thebridgesiteetc. aretheresponsibilityofthe contractor.

108. The concrete items wherever dewatering is imperatively necessary the term dewateringshall mean the execution or operation of the items due to standing water as well as duetopercolationofwater.Thequotedratewillbeinclusiveofthis.

109. The materials, borrow areas and hutments atsite should be arranged by the contractorathisowncost. Nofuturecomplainton thisaccountshallbeentertained.

110. The contractor shall make requisition of claim book from the date of commencement ofthe work from the Department and shall maintain in proper P.W.D. form with pagesserially numbered in order to record items of works are not covered by his contract andclaimable as extra. Claims shall be enteredregularly inthis book under the datedsignature of the contractor

or his duly authorized agents at the end of each month. Acertificate should be furnished along with the claim to the effect that he has no otherclaimbeyondthisclaimup-to-date.Ifinanymonththerearenoclaimstorecord,a

certificate to that effect should be furnished by the contractor in the claim book. Eachclaim must be defined and should be given as for as possible regarding the quantities aswell as the total amount claimed. The claim book must be submitted by the contractorregularly by 10th and 16th days of each month for orders of the Engineer-in-Charge orcompetent authority. Claims not made in this manner or the claim books not maintainedfrom the commencementof the work areliable to be summarily rejected. The claimbooks are the property of the P.W.D. and shall be surrendered by the contractor to theEngineer-in-chargeaftercompletionoftheworkorbeforerecessionofthecontractbytheDepartmentwhicheverise arlierforrecord.

111. NumberoftestsasspecifiedinI.R.C./MoSRT&H/I.S.Ispecificationrequiredfortheconstruction of roads /bridges / buildings or any other structural works will be conductedin any Govt. Test House / Departmental laboratories/reputed material testing laboratoryas to be decided by the Engineer-in-charge. Testing charges including expenditure forcollection/transportationofsamples/specimensetc.willbebornebythecontractor.The collection of samples and testing are to be conducted for both prior to execution andduring execution as may be directed by the Engineer-in-charge and on both the accountsthecostshallbeborne bythecontractor.

112.

I). Besides, the firm / contractor shall install fully fledged field laboratory at work sitefor conducting required tests as per IRC/MoSRT&H/ISI requirements at his own costforprovidingsufficient opportunityforcheckingfromtimetotime.

II). Engineering personnel of the executing agency should be present at work site at thetime ofvisitof highlevelinspectingofficersinthe rankofChiefEngineer andabove.

III). Aftercompletionoftheroadinallrespectstheroadfurniture'sshouldbeaffixedbytheexecuting agencyindicatinglocationslikeschool,hospital,No-hornetc.

113. Condition for issue of plant & machinery to contractor on hire: - Tools & plants will beissued to the contractor only if it is desirable in the interest of Govt. works and if thesecanbesparedwithoutinconveniencetotheDepartment.TheSanctionoftheSuperintending Engineer shall be necessary in each case. The contractor shall arrange hisprogramme of work according to the availability of the plant & machinery & no claim willbeentertained foranydelayinsupplybytheDepartment.

An agreement shall be entered in to by the contractor to the effect that these hirecharges are recoverable from the bills of the contractor regularly and the final paymentfor the work including refund of security deposit will not be made until the total amountdue to the Government on account of hire of machinery etc. is recoverable in full. Fullamount of hire charges due from the contractor at any contract at any time shall berecovered from his next subsequent bill. All transit and incidental charges in connectionwith the dispatch of tools and plants and machineries fromworkshopshed/ depositreturn thereto,willbebornebythecontractor.

Thehirechargeshallberecoveredattheprescribedratesfromandinclusiveofthedate,theplant andmachineryismadeoveruptoandinclusiveofthedateofits

return,eventhoughthesamedayitmaynothavebeenutilizedforanyreasonexceptfor a major break down which may take more than 72 hours for repairs. The contractorshall immediately intimate in writing to the Engineer –in-charge when any plant ormachinerygoesoutoforderrequiringmajorrepairs.

The hire charges are for clock hours. In case of tar boilers, hot mix plant and anyother machinery requiring similar preparation the working hour will include the timerequired to make up the boiler temperature and bring plant to the operating conditionsbeforethe actualstart ofwork.

The machine will work in shifts of 8 hours each. Extra charges towards overtimewages of any of the operating and maintenance staff will be leviable. These charges willbe fixed by the Engineer-in-charge from time oftime.In nocase the tools and plantsshall be operated beyond 8 hours in any shift without prior written permission of theEngineer-in-charge.

The contractor shall release the plant and machinery as and when required forperiodical servicing and maintenance. He shall also provide for any labour and watersource for washing the plants. In the case of Concrete mixtures, pavers and similar suchtype of equipment, the contractor shallarrange to get the hoppercleanedand thedrums etc. washed attheclose ofwork eachday.

The plant and machinery once issued to a contractor shall not be returned by himon account of lack of arrangement of labour and material etc. on his part. The same willbe returned only when they do not require or when in the option of Engineer-in-chargetheworkoraportionofwork forwhichissuediscompleted.

Thetoolsandplantsshallwhileintransitandinthecustodyofcontractorbeathis sole risk and responsibility for damages and / or loss except fair wear and tear. Thedamage or loss as assessed by Engineer-in-charge shall be made good by the contractor.In the event of a disagreement as to the extent of damage or the value of article lost, thedecision of superintending Engineer shall be final. The contractor shall on or before thesupply of plant and machinery sign an agreement in indemnifying the Govt. against lossor damage to the machine. The Contractor shall also be responsible for any claim forcompensation for loss of life, injury or damages to property etc. arising from any causewhat-so-ever. The contractor shall provide full time chaukidar for guarding the plant andmachineryat site.

If the articles are not returned within the date originally specified or extended bythe Engineer-in-charge, in addition to the normal hire charge, a surcharge equal to 10%of the hire charges will be levied for the period that the machinery is not returned. Suchperiod will be treated as working time. In the event of the non-return of the machinery,the full value of the articles at the current market price will be recovered from thecontractor’s outstanding bills or any bills that may become due in respect of his otherworkunder the

statepublicworksDepartment.Thedecisionofthe superintendingEngineershallbefinalincaseof dispute.

FORM OF AGREEMENT – The contractor shall, before taking the possession of themachinery, enter in to an agreement with the Engineer-in-charge or his nominees in theformattached.

Log Books for recording the hours of daily works for each of the plant andmachinery supplied to the contractor will be maintained by the Department will beattestedby the contractor orhisauthorized agent daily. Incase of contractor conteststhe correctness of the entries and / or fails to sign the log book, the decision of theEngineer-in-charge shall be final and binding on him. Hire charges will be calculatedaccordingtothe entries inthelogbookandwillbebindingonthecontractor.

AGREEMENTFORLOANSOFGOVERNMENTTOOLS&PLANTS.

Thisagreementmadethe_____TwoThousand _____ between (here-in-after referred to as"the hirer" which expression shall unless excluded by or repugnant to the context includehis heirs, executors, administrators and assigns) of the one part and the Govt. of Orissa(here in after referred to as the Governor which expression shall unless excluded by orrepugnanttothe contextincludehissuccessors in officeasassigns)oftheotherpart.

Whereas the hirer desirous of hiring the tools and plants of the P. W. Departmentof the Orissa Govt. and more particularly specified in the schedule here under betweenhere in after referred to as "the tools and plants".And whereas Government has agreedto let in hire the tools and plants to the hirer on the terms and conditions here in aftermentioned.

Nowitishereby andbetweenthe partiesheretoas follows:-

a) In consideration of agreement that hire charges be recovered from their bill for workexecutedonwhichthismachinerywillbeusedoranyotherthanstandinginthenamesof contractors in the book of the Department or any other Government Department. TheGovt. agrees to let the hirer tools and plants for the period to be computed from the dateof delivery of the tools and plant to the hirer at the P.W. Department workshop atRayagada.

b) Therateofhigherchargeswill beasper Governmentorderinvogue.

c) The hirer shall not transfer, assign or sublet or in any way part with the tools and plantsoranypart there-ofwithoutthepreviouswrittenapproval of theEngineer-in-charge.

d) On the expiry of the period of the hire, the hirer shall return the tools and plants to thePublic Works Department. & workshop / store at Rayagada in the same good condition inwhich theywere received byhim.

e) In the event of the tools and plants not being returned on the expiry of the above-mentioned period, the hirer shall without prejudice and any other liability pay to theGovernment onaccountequivalentto the rate of hire specifiedforthe working periodandanincreaseoftenpercent.

f) The tools and plants shall be open for inspection at all times to the officers of theGovernment.

g) The hirer shall not operate the tools and plants so hired for more than one shift / twoshifts of 8

hours each per day without the prior sanction of the Engineer-in-charge. If thehireroperatesthetoolsandplantsbeyondtheaforesaidlimitwithoutthepriorsanction

of the Assistant Engineer, he shall pay to Government additional hire charges as well asover time charges for staff for such excess operation at the rate approved by theEngineer-in-chargefromtimetotime.

h) In case of breakdown, repairable at the site within a period of three days hire charges asspecifiedintheschedulewillbeleviedexceptin caseofmajorrepairs.

i) Normallythetoolsand plantswill besuppliedwith operatingstaff.

j) The hirer shall be responsible for any claims for compensation for loss of life, injury ordamage to property etc. arising due to any causes what-so-ever during the period of themachineryisinhischarge.

k) All municipal or other dues and taxes payable on account of the use or operation of thetoolsand plantsforthe periodofhireshallbedefrayed bythehirer.

l) The hirer shall make good any loss or damages arising out of causes other than fair wearand tear to the tools and plants during the period of hire. The cost recoverable from thehirer shall be the full replacement value as determined by the Engineer-in-charge .In theevent of any loss or damage not being made good by the hirer to the satisfaction of thesaid Engineer-in-charge the office shall be at liberty to make good himself such loss ordamage and recover the cost thereof from the hirer. The hirer shall pay to the Engineer-in-charge such an amount as shall be necessary to make good the loss or damage failingwhich thesamewillberecoveredfromhisdues asin caseofhirecharges.

m) On the breach of any terms or conditions of this agreement by the hirer the Engineer-in-chargeshallbe entitledto demand thereturnof tools and plants and the hirer shallreturn the tools and plants within 72 hours from the date of receipt of such order inwriting .In case of failure on the part of the hirer to comply with such order he shall beliable to pay such penalty as may be imposed by the Engineer-in-charge for the periodthe tools and plant are detained provided that the maximum penalty shall not exceed thecostreplacementofthe toolsandplants.

n) IncaseofanydisputesbetweenthehirerandtheGovernment,thedecisionoftheSuperintendingEngineershallbefinal.

o) This agreement shall be operated by the Engineer-in-charge on behalf oftheGovernmentandthetermEngineer-in-chargeshallincludeallofficersduly authorized byhimtoexercise poweron hisbehalf.

THESCHEDULE

SerialNo.	DescriptionandNameofthearticles.	No.	Amountofhireperhour.	Remarks.

In witness where of the hirer and the Engineer-in-Charge has for and on behalf of theGovernor oftheStatehassettheirrespectivehand,theday andtheyearherein abovewritten.

Signedby:

1. 2.

Signed sealed and delivered in the presence of1.

2.

114. The agency will be responsible for traffic management and maintenance of the stretch ofthe road (for which the tender has been invited) at his own cost during the period ofexecution.

115. Evenqualifiedcriteriaaremeets;thebidderscanbedisqualifiedforthefollowingreasons,ifenquired bytheDepartment

a). Making a false statement or declaration.b).Pastrecordof poorperformance.
c). Past record of abandoning the work half way/ recession of contract.d).Pastrecordof in-ordinatedelayin completion ofthework.
e).Pasthistoryoflitigation.

116. Theinformationfurnishedmustbesufficienttoshowthattheapplicantiscapableinallrespectstosuccessfullycompletetheenvisagedwork.

117. In case the 1st lowest tenderer or even the next lowest tenderers withdraw in series oneby one, thereby facilitating a particular tender for award, then they shall be penalizedwith adequate disincentives with forfeiture of EMD unless adequate justification for suchbackoutis furnished. Appropriate actionforblack listingthe tenderersshallalsobetaken apartfromdisincentivizingthetenderer.

118. ADDENDUMTOTHECONDITIONOFP1CONTRACT
Clause-2(a)ofP-1Contract:-
TIMECONTROL(VideWorksDepartmentOfficeMemorandumNo.24716dt.24.12.2005 andNo.8310dt.17.05.2006):-

<u>Progressofwork andRe-schedulingprogramme.</u>

The Block Development Officer / Engineer- in- Charge shall issue the letter ofacceptance to the successful contractor. The issue of the letter of acceptance shallbetreatedas closure of theBidprocessandcommencementofthecontract.

Within 15 days of issue of the letter of acceptance, the contractor shall submit totheEngineer-inChargeforapprovalaProgrammecommensuratetoClauseNo.

120.1.3showingthegeneralmethods,arrangements,andtimingforalltheactivitiesintheWorksalongwithmonthlycashflowforecast.

To ensure good progress during the execution of the work the contractors shall bebound in all cases in which the time allowed for any work exceeds one month tocomplete, 1/4th of the whole time allowed under the contract has elapsed, ½ of thewhole of the work before ½ of the whole time allowed under the contract haselapsed, 3/4th of the whole of the work before 3/4th of the whole time allowedunderthe contracthaselapsed.

If at any time it should appear to the Engineer-in-Charge that the actual progressof the work does not conform to the programme to which consent has been giventhe Contractor shall produce, at the request of the Engineer-in-Charge, a revisedprogramme showing the modifications to such programme necessary to ensurecompletion of the works within the time for completion. If the contractor does notsubmit an updated Programme withinthis period, the

Engineer-in-Charge maywithhold the amount of 1% of the contract value from the next payment certificateandcontinue towithhold this amountuntilthe nextpaymentafterthe dateonwhich theoverdueProgrammehasbeensubmitted.

An update of the Programme shall be a Programme showing the actual progressachieved on each activity and the effect of the progress achieved on the timing oftheremainingwork including anychangestothesequenceof theactivities.

TheEngineer-in-Charge'sapprovaloftheProgrammeshallnotaltertheContractor's obligations. The Contractor may revise the Programme and submit it tothe Engineer-in-Charge again at any time. A revised Programme is to show theeffectofVariationsand CompensationEvents.

ExtensionoftheCompletionDate.

118.2. 1. The time allowed for execution of the works as specified in the Contract data shallbe the essence of theContract. The executionof the works shallcommence fromthe 15th day or such time period as mentioned in letter of Award after the date onwhich the Engineer-in-Charge issues written orders to commence the work or fromthe date of handing over of the site whichever is later. If the Contractor commitsdefault in commencing the execution of the work as aforesaid, Government shallwithout prejudice to any other right or remedy available in law, be at liberty toforfeittheearnestmoney&performanceguarantee/Securitydepositabsolutely.

118.2. 2. As soon as possible after the Contract is concluded the Contractor shall submit theTime & Progress Chart for each milestone and get it approved by the Department.The Chart shall be prepared in direct relation to the time stated in the Contractdocuments for completion of items of the works. It shall indicate the forecast of thedates of commencement and completion of various trades of sections of the workand may be amended as necessary by agreement between the Engineer-in-ChargeandtheContractorwithinthelimitationsoftimeimposedinthecontractdocuments, and further to ensure good progress during the execution of the work,the contractor shall in all cases in which the time allowed for any work, exceeds onemonth (save for special jobs for which a separate programme has been agreedupon)completetheworkaspermilestonegivenin contract data.

3. In case of delay occurred due to any of the reasons mentioned below, the Contractorshall immediately give notice thereof in writing to the Engineer-in-Charge but shallnevertheless use constantly his best endeavors to prevent or make good the delay andshall do all that may be reasonably required to the satisfaction of the Engineer-in-Chargetoproceedwiththeworks.

a) Forcemajeure,or
b) Abnormallybadweather,or
c) Seriousloss ordamagebyfire,or
d) Civil commotion, local commotion of workmen, strike or lockout affecting any ofthetradesemployedonthework,or.
e) Delay on the part of other contractors or tradesmen engaged by Engineer-in-Chargeinexecutingworknotforming partoftheContract.
f) In case a Variation is issued which makes it impossible for Completion to beachieved by the Intended Completion Date without the Contractor taking steps toaccelerate the

remaining work and which would cause the Contractor to incuradditionalcost,or

g) Anyothercause,which,intheabsolutediscretionoftheauthoritymentioned,inContractdata isbeyond theContractorscontrol.

4.Request for reschedule and extension of time, to be eligible for consideration, shall bemade by the Contractor in writing within fourteen days of the happening of the eventcausing delay. The Contractor may also, if practicable, indicate in such a request theperiodforwhichextensionisdesired.

118.2.5. In any such case a fair and reasonable extension of time for completion of workmay be given. Such extension shall be communicated to the Contractor by the Engineer-in-Charge in writing, within 3 months of the date of receipt of such request. Non-application by the contractor for extension of time shall not be a bar for giving a fair andreasonableextensionbytheEngineer-in-Chargeandthisshallbebindingonthecontractor.

CompensationforDelay.

If the contractor fails to maintain the required progress in terms of clause 2 of P-1contract or to complete the work and clear the site onor before the contract orextended date of completion, he shall, without prejudice to any other right or remedyavailable under the law to the Government on account of such breach, pay as agreedcompensation the amount calculated at the rates stipulated below as the Chief Engineer(whose decision in writing shall be final and binding) may decide on the amount oftendered value of the work for every completed day / month (as applicable) that theprogress remains below that specified in Clause 2of P-1 contract or that the workremains incomplete.This will also apply to items or group of items for which a separateperiod of completion has been specified. Compensation @ 1.5% per month for delay ofwork, delay to be completed on per Day basis.Provided always that the total amount ofcompensation for delay to be paid under this condition shall not exceed 10% of theTenderedValueofwork.

The amount of compensation may be adjusted or set-off against any sum payableto the Contractor under this or any other contract with the Government. In case, thecontractordoesnotachieveaparticularmilestonementionedincontractdata,(whichisin this case the original work programme furnished by the Contractor and approved bytheEngineer-in-Chargewhichformedapartofagreement)orthereScheduledmilestone(s) in terms of Clause 2.5, the amount shown against that milestone shall bewithheld,tobeadjustedagainstthecompensationleviedatthefinalgrantofextensionof time. Withholding of this amount on failure to achieve a milestone, shall be automaticwithout 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 fails to make up for the delay in subsequent milestone(s), amountmentioned against each milestone missed subsequently also shall be withheld. Howevernointerestwhatsoevershallbepayableonsuch withheld amount.

ManagementMeetings.

Either the Engineer or the Contractor may require the other to attend a managementmeeting.Thebusinessofamanagementmeetingshallbetoreviewtheplansfor

remaining work and to deal with matters raised in accordance with the early warningprocedure.

TheEngineershallrecordthebusinessofmanagementmeetingsandistoprovidecopiesofhisrecord to thoseattendingthemeetingandtotheEmployer.Theresponsibilityofthepartiesforactionsto betaken to be decided by the Engineereitheratthemanagementmeetingorafterthemanagementmeetingandstated inwritingtoallwhoattended themeeting.

Clause-2(b)ofPercentageRateP-1Agreement:-
RecessionofContract(AmendmentasperletterNo.10639dt.27.05.2005ofWorksDepartment ,Orissa):-
To rescind the contract (of which rescission notice in writing to the contractor under thehandoftheDistrictProjectCoordinatorshallbeconclusiveevidence),20%ofthevalueofleftover work willbereleasedfromthecontractor aspenalty.

119. A Contractor may be black listed as per amendment made to Appendix XXXIV to OPWDCode Vol.-II on rules for black listing of Contractors vide letter no.3365 dt.01.03.2007 ofWorks Department,Orissa.
Asper saidamendmentaContractormaybeblacklisted

I). Rule–14.3(ii)(a) Appendix-IX(A)ofOPWDCode, Volume–II
"Tendercost,EMD,VAT,PAN,ContractorRC"underthecolumn"DocumentDescription"sh allbemodifiedas"GSTIN,PAN, ContractorRC".

II). Rule-16.1 in Appendix-IX(A)of OPWDCodeVolume–II
The statement "The Technical bid generally consists of cost of bid documents,EMD/Bid Security, VAT, PAN / TIN, RC, Affidavits, Profit Loss statement, work inhand, list of machineries and any other information required by OIT" shall bemodifiedas"ThetechnicalbidgenerallyconsistsofGSTIN,PAN,RegistrationCertificate, Affidavits, Profit Loss statement, work in hand, list of machineries andanyotherinformationrequired by OIT.

III). Rule-23.3.1inAppendix-IX(A)ofOPWDCodeVolume–II
The statement "Fails to furnish blocking of PortalRegistration shall in no case beless than 90 days" shall be modifies as "The original Technical / Financial (Tenderpaper cost/ EMD/Bid Security) instruments before the designated officer within thestipulateddateand time"

IV). Rule-24.3 in Appendix-IX(A)of OPWDCodeVolume–II
Thestatement"TheminimumperiodofminimumperiodofblockingofPortalRegistration shall innocasebelessthan180days".

a) Thisshalltakefrom thedateofissueofthisOfficeMemorandum.
b) Accordingly, relevant existing codal / contractual provision exist vide OfficeMemorandumNo.7885/WDt.23.07.2013ofWorksDepartmentstandsmodified with effectfromthedateofissueofthisOfficeMemorandum.
c) Thishasbeen concurredinbytheFinanceDepartmentvideDt.06.07.2017.

120. Theauthorityreservestherighttonegotiatewiththelowesttenderer.

121. Amendment of codal / contractual provisions as per Works Department OM No.12366 Dt.08.11.2013.

I). <u>AmendmenttoPara– 3,4,16 (a)(vii)ofOPWDcode, Vol1bysubstitution</u>.

For the purpose of estimate, the approved quarry lead is to be provided judiciously,Engineers in charge would be responsible for ensuring the quality of the materialssupplied. The contractors would, however, be responsible for procurement of materialsfrom authorized sources and voluntarily disclose the source of procurement for thepurpose of billing. Besides, the bidder would be required to submit the details of quarryforprocurement whilesubmitting thebids.

II). <u>Amendmentto Para–3,4.,14Note-IofOPWDcode,Vol-Ibyinclusion</u>

If L1 bidder does not turn up for agreement after finalization of the tender, then he shallbe debarred from participation in bidding for three years and action will be taken toblacklistthecontractor.InthatcasetheL2bidder,iffulfills,otherrequiredcriteriawould be called for drawing agreement for execution of work subject to the conditionthat L2 bidder negotiates at par with the rate quoted by the L1 bidder otherwise thetender will be cancelled. In case a contractor is blacklisted, it will be widely publicizedand intimated to all departments of Govt. and also to Govt. of India agencies working inthestate.

III). <u>Amendmentto Appendix–IX,Clause–36ofOPWD code,Vol-IIbyinclusion</u>

If the rate quoted by the bidder **is less than 15% of the tendered amount, thansuch a bid will shall be rejected and the tender shall be finalized basing onmerits of rest bids. But if more than one bid is quoted at 14.99%** (Decimals up totwo numbers will be taken for all practical purposes) less than the estimated cost, thetender accepting authority will finalize the tender through a transparent lottery system,whereallbidders/theirauthorizedrepresentatives,theconcernedBlock Development Officer,Asst.Executive Engineer,Section Officerwillremain present.

IV). <u>(A)-AmendmenttoPara3,5,5(v)Note–IIofOPWDcode,Vol-Ibysubstitution</u>

AmendmenttoPara3.5.5(v) Note–ii ofOPWDCodeVol.-Ibymodification)

Additional Performance Security shall be obtained from the bidder when the bid amountis less than estimated cost put to tender. In such an event, only the successful bidderwho has quoted less bid price/ rates than the estimated cost put to tender shall have tofurnish the exact amount of differential cost i.e. estimated cost put to tender minus thequoted amount as Additional Performance Security (APS) in shape of Term DepositReceiptpledgedinfavouroftheBlock Development Officerwithinsevendays,otherwise the bid shall be cancelled and the security deposit shall be forfeited. Further,proceeding for blacklisting shall be initiated against bidder as per Works DepartmentOfficeMemorandumNo.14299dtd.03.10.2017

<u>(B) -Amendment to Para 3,5,5(v) Note – III of OPWD code, Vol-I by inclusion.</u>Foravailingincentiveclauseinanyprojectwhichiscompletedbeforethestipulateddateof completion,subjecttootherstipulationitismandatoryonthepartoftheconcerned.DistrictProjectCoordinatortoreport theactualdateofcompletionof theproject assoonaspossiblethroughFAXorE-mailsothatthereportisreceivedwith7daysofsuchcompletionbytheconcerned AdministrativeDepartment.Theincentivefortimelycompletionshouldbeonagraduatedscaleo

f1(One)percentto5(Five)percentofthecontractvalue.Assessmentofincentivesmaybeworkedoutf orearliercompletionofworkinallrespectinthefollowingscale.

1. Before30% ofthecontractperiod=5%ofcontractvalue.
2. Before20%to30%ofthecontractperiod=4%ofcontractvalue.

3. Before10%to20% ofthecontractperiod=3%ofcontractvalue.
4. Before5%to10%ofthecontractperiod=2%of contractvalue.
5. Before5% ofthecontractperiod=1%ofcontractvalue.

Theamountofbonus,ispayableshallbepaidalongwithfinalbillaftercompletionofwork.

V). <u>AmendmenttoPara–3.5.18Note-VIIIofOPWDcode,Vol-I</u>

Before acceptance of tender, the successful bidder will be required to submit a workprogramme and milestone basing on the financial achievement so as to complete thework within the stipulated time and in case of failure on the part of the agency to achievethemilestoneliquidated damagewillbeimposed.

122. Engineer Contractor desirous to avail the facility of exemptionof EMD is required tosubmit an affidavit to the effect that he has not yet been awardedmore than two worksin any departmentwith exemption of EMD (excluding this work) during the currentfinancial year. The name of works awarded with EXEMPTION OF EMD and the tenderinviting authority must be mentioned in the affidavit, failing which the tender will berejected. The contractors belongs to scheduled caste and scheduled tribe interested foravailing concession on price as per relaxation of Rule Para 3.5.14 of the OPWD Code andvide Works department resolution No. 27748 Dt. 11.10.1977 is required to submit anaffidavitinthisregard.

123. In case of the first lowest tenderer or even the next lowest tenderers withdraw inseries one by one,there by facilitating a particular tender for award then theyshall be penalized with adequate disincentives with forfeiture of EMD unlessadequate justification for such back out is furnished. Appropriate action for blacklisting the tenderers shall also be taken apart from disincentives against thetenderer.

124. Additional clauses regarding codal provisions regarding e-procurement as per WorksDepartment, Govt. of Odisha O.M No. 7885 / W Dt. 23.07.2013 shall be referred beforeparticipatinginthetender.

It is mandatory to submit other related bid documents in original for verification withinthe schedule time as per tender call notice / Detailed tender call notice, failing which theparticipated tenderer shall debar from participating in the on line bidding system and hisDSC will be blocked by competent authority as per Clause No. 24 of Works DepartmentO.MNo.7885/WDt.23.07.2013&O.M.No.OMNo.12366Dt.08.11.2013.

125. EvenQualifyingcriteriaaremeets;thebidderscanbedisqualifiedforthefollowingreasons,ifenquired bytheDepartment.

1. Makingafalsestatementor declaration.
2. Pastrecordofpoorperformance.
3. Pastrecordofabandoningtheworkhalfway/recessionofcontract.
4. Pastrecordofin-ordinatedelayincompletionof thework.
5. Pasthistoryoflitigation.

126. Thecompaniesorindividuals

registeredwithStateGovernmentandcontractorsofequivalentGrade/classregisteredwithCentralGovernment/MES/Railwayshaving

registrationforCivil,ElectricalandP.H.workshavingbothlegalcompetencyandexpertise in Civil, Public Health and Electrical Engineering works need put tenders for thiscomposite work and the documentary evidence under appropriate Act in support of theirlegalcompetency andexpertise toexecute Civil, Electricaland P.H.work invariablyshould accompany their tender papers. The Civil Contractor in order to take part in theComposite tendershould enter into a sub-contract agreementin shape of anaffidavitwith eligible Registered Electrical Contractors having valid H.T. /L.T/MV license (Associatewiththesub-contractor).ScannedcopyofsuchagreementandtheElectricalLicensecopy should must be uploaded in the tender for the work. The Originalagreement andthe Original Electrical License should be produced during verification of Opening of Cover-I (Technical Bid) of the tender. This agreement with the electrical contractor shall alsoform a part of the tender. If the Civil Contractor is having registration in Electrical worksunder the same name and style, the question of joint venture does not arise. The tenderpapersshallbearsignatureofauthorizedpersonofthetenderer,theletterofauthorization should accompany tender papers. The authorization should clearly indicatethe name of legal person to sign and enter in to agreement and receiving payment andwill be responsible for all contractual obligations for execution of work for Civil, P.H. andElectricalItemsofwork tothe Engineer-in- Charge.

I). The contract will be drawn in P.W.D. P-1 contract form and will constitute 3parts as follows.

a). Part–I : For Civil itemsofworks

b). Part – II : For Electrical. items of worksc).Part–III:ForP.Hitemsofwork

The contract shall be drawn& signed by Block Development OfficeronbehalfoftheCollector,Balasore.

II). The Civil items of works as per Part-I of Schedule of quantities, Electrical items of works(both internal & external) as per part-II of Schedules of quantities and P.H. items ofworks (both internal & external) as per Part-III of the Scheduled of quantities of theAgreementshallbesupervisedmeasuredandcheckmeasuredbytheJunior Engineer and Asst. Executive Engineer of Panchayat Samiti, Nilgirirespectively.

In the interest of expeditious execution of work, payment of interim bills (RunningA/c bills) shall be made by the Block Development Officerin respect of Electrical andPublic Health works respectively and nil final bill for final adjustment and compilation ofaccounts.**Howeverasafetycertificateshallbefurnishedfromaregisteredelectrical contractor relating to electrical installation work and** concerned biddershall be responsible forproper and timely execution of their respective items of worksand implementation of the terms and condition of the contract both for PH and Electricwork. The contractor shall be bound to receive and act as well according to the directionoftheEngineer-in-ChargeforGeneralElectrical/GeneralPublicHealthAuthorityconcerned.

The contractor shall properly co-ordinate with the execution of P.H. and Electricalworksand takecareofthesafetyofworkers.

III). Any deviation in execution of Civil, P.H. and E.I. items of respective agreement will meandeviationtothecompositeworkasawhole.Theconcerneddept.counterparts/authorities will

keep note and dealsuch deviation as per relevant clausesof P1 Agreement and DTCN / Code at their level. The financial implications thereby mustbeinformedbythemtotheconcerned Block Development Officer, Nilgiriforproper action.

IV). Similarly,extensionoftimeifappliedbythecontractortotheBlock Development Officer, Nilgiri for their part, it will mean and amount to extensionof time for thecomposite work as a whole and thus will be dealt with byconcerned Block Development Officer as perrelevantclauseofP1agreement &DTCN / Code.

V). In case of necessity felt by the Block Development Officer,Nilgiriregarding show progress ofwork or otherwise, then in co-ordination with each other, a meeting may be convenedsuitablyaskingthecontractorforarevisedworkprogrammeandtoremovethebottlenecks of anysorton thewaytocompletionofthe compositework.

127. The following documents which are not submitted with the bid will be deemed to be partofthebid.

S.LNo.	Particulars
1.	NoticeinvitingTender andcorrigendumifany.
2.	InstructiontotheBiddersvideclauseno126ofDetailedtendercall notice.
3.	ConditionsofContractintheDetailedtendercall notice
4.	ContractData.
5.	Specifications
6.	Drawings.

128. EIGIBILITY CRITERIA: - To be eligible for qualification in technical bid (cover-I),applicants/bidder shall furnish the minimum documents as per detailed tender call notice.However the tender inviting authority reserves the right to accept or reject any tenderreceived basing on the decision in tender evaluation committee meeting in the interest ofGovt.works.

1) Required E.M.Dandtenderpaper costaspertheclauseNo.05&03.
2) Copy of valid Registration Certificate with CDMS (Contractor Data ManagementSystem) registration Certificate/ Slip, Valid GST clearance certificate, GSTIN,PAN card along with the tender documents as per Clause No.06 and 04.Fallingwhich bid willbeliableforrejection.
3) Requiredadditional PerformanceSecurityasper clauseNo.26 .
4) Informationregarding(i)Evidenceofownershipofprincipalmachineries/equipments in Schedule-C as per Annexure-I of Schedule-Cas per ClauseNo.09.
5) Information regarding current litigation, debarring / expelling of the applicant orabandonmentofworkbytheapplicantinschedule“E”andinschedule“F”asperclause10.
6) Information regarding experience of works in Schedule D-1 & Schedule - D2 asperClauseNo.12.
7) The relevant document from competent authority of Govt. shall be furnished inonlinetender.
8) Submission of original bid security and tender paper cost within schedule time

asperclauseno 05&03ofdetailedtendercallnoticeandcontractdata.

9) The Civil Contractor in order to take part in the Composite tender should enterinto a sub-contract agreement in shape of an affidavit with eligible RegisteredElectrical Contractors having valid H.T. /L.T/ M.V. license (Associate with thesub-contractor).ScannedcopyofsuchagreementandtheElectricalLicensecopyshouldmustbe uploadedinthetenderfortheworkasperclauseno126.

10) Other requirements as per Detailed tender call notice. The scan copy of allrelevantdocumentsshallbeuploaded inonline.

11)

12) The authority reserves right to cancel any or all tenders without assigning any reason.

12.

SCHEDULE-A

CERTIFICATE OFNORELATIONSHIP

I/We hereby certify that I/We* am/are* **related/not related**(*) to any officer ofAssistantEngineer&aboveinthePR & DW Dept. Odisha,Bhubaneswar/UnderSecretary&aboveinthePR & DW Dept. GovtofOdisha/OfficeoftheBDO, Nilgiri/ Zilla Parishad Balasore. I/We* am/are* aware that, if thefacts subsequently proved to be false, my/our* contract will be rescinded with forfeitureof E.M.D and security deposit and I/We* shall be liable to make good the loss or damageresultingfromsuchcancellation.

I//We also note that, non-submission of this certificate will render my / our tender liableforrejection.

(*)- Strikeout whichisnot applicable

SignatureoftheTendererDate:

-

SCHEDULE-B

CERTIFICATEOFEMPLOYMENTOFUNEMPLOYEDGRADUATE ENGINEER/DIPLOMAHOLDERS(Mandatoryfor'A'ClassContractor)(ForSuperclass/specialclass/A classcontractors only)

I/ WeherebycertifythatatpresentthefollowingEngineeringpersonnel areworkingwith me/inourfirm/companyandtheirbio-dataarefurnished below

Sl. No.	Name ofEngineeringpersonnelappointed forsupervisingcontractor'swork withaddress.	Qualification	Date ofAppointment	Monthlyemolument	Whether fulltimeengagementandcontinuous.	Iftheyaresuperannuated/retired / dismissed or removedpersonnel from state Govt./Central Govt ./ Public SectorUndertaking/privateCompaniesandsoranyoneineligiblefor Governmentservice.
1	2	3	4	5	6	7

I/Wealsonotethat,non-submission ofthiscertificatewillrendermy/ourtenderliableforrejection

Signatureofthetenderer.Date

ANNEXURE –IOFSCHEDULE-C

LISTOFPLANTANDEQUIPMENTSTO BEDEPLOYEDONTHECONTRACTWORK(MINIMUMREQUIREMENT)

Listofplantsandequipments	Requirement	Totalmarks
Watertanker	1no.	**10**
Truck/Tipper	1nos.	**10**
TractorwithTrolly	1no.	**10**
Concretemixer	2no.	**15**
Concreteneedlevibrator(60mm)(completeset)	1Set.	**10**
Concreteplatevibrator (40mm)(completeset)	1set.	**10**
Complete stage shuttering, centering arrangement(Quantityin shapeofsqft.Orsqm.onlyareconsider)	700sqm.OR 7532sqft.	**25**
JCBorExcavator	1no.	**10**
	Total=	**100**
RequiredMinimumQualifyingMark 80outof100marks		

NOTE:

1) Capacityofeachplantandequipmentshouldbeasperspecificationattachedseparately.
2) Theaboveequipmentshouldeitherbeowned oravailedonlong-termleaseextended beyond the duration of the work, the authority of which in eithercaseistobesubstantiated beforeawardofthework.
3) Theequipmentmentionedabovemustbeincludedin Schedule“C”and clearlyindicatedas“Owned/leased.”
4) The above list is not exhaustive. All other machinery/equipmentas will berequiredforsatisfactorycompletionoftheworkshall havetobedeployedbytheagency.
5) Fordeployingadditionalsophisticatedmachinerybythe agencyforcompletion ofthework,noclaimshallbeentertained.

ANNEXURE–IIOFSCHEDULE-C

CAPACITYOFPLANTSANDEQUIPMENTS

1.a)	Tractor/Tipper	Thetractorshouldhave aminimumcapacityof 22to50H.P.
b)	WaterTanker	Thewater tankershouldbeatruckmounted oneorasatrailingunit havingminimumcapacityof5000liters
c)	Smoothwheeled Roller	Weightfrom8tonnesto10tonnesUn-ballasted:8tonnesApprox. WaterBallasted:9tonnesapprox. SandBallasted:10tonnesApprox.
2.a)	Compressor	Havingcapacityof450CFM
b)	WaterPump	Havingcapacityof5H.P.to27H.P.
c)	JackHammer	Havingcapacityof2tonnes.
d)	Winchwith grab	Winchhavingcapacityof5tonneandgrab having1tonnecapacity.
3.a)	ConcreteMixer	Batch type Concrete Mixer as per IS-1791 / 1985 for capacity of 15 Cum /hour(Tiltingdrumtype)withpoweroperatedsideloadedrevolutioncounter,automaticshaker,Gearmountedonsteelchassiswith4MS wheelscompletewithsuitableprimemover.
b)	Welding generator	HavingCapacityof8-15KW.ImmersiontypewithvibratingNeedleof40 mm/50mm/60mm & 4meterlength.
4.a)	Diesel Generator	Havingcapacityof32K.W.
b)	Truck	Havingcapacityof12tonnes.
c)	Jeep	Dieseljeephavingcapacityof16H.P.withtrailer.

ANNEXURE–IIIOFSCHEDULE-

CCERTIFICATETOBE ISSUED BYTHEAUTHORITY UNDERWHOMTHEMACHINERIES/EQUIPMENTSAREDEPLOYED.

(Notissuedprior to90daysofreceiptoftender)

Sl. No	Name of themachineries/equipment	IdentificationNo./Engine/ChassisNo.	Capacity	Year ofpurchase	Condition(Working /breakdown)	Sincewhen deployedunderhim	When it islikely to bereleasedfrom current assignment
1	2	3	4	5	6	7	8

Certifiedthat,

1. Ihaveverifiedtheownershipdocumentswiththeidentificationno.oftheMachineries/Equipment.
2. Machinesarecurrentlyutilizedexclusivelyfortheworkundertheabove Division.
3. Thefactsprovidedaretrueasonthedateofissueofthisdocumenttothebestofmyknowledge.

ANNEXURE–IV(A)OFSCHEDULE-CTIME

SCHEDULE FOR MOVEMENT OF EQUIPMENT / MACHINERIES AVAILABLEWITHTHETENDERERFROMONESITETOWORKSITEWHENTHECONTRACTOR ISEXECUTINGSEVERALWORKS

Sl.No	Name ofEquipment&Machineries	RequiredNo.	Name ofthe workfor whichEquipment&Machineries sdeployed	Name of theDivision underwhosejurisdictionEquipment &Machineries deployed	Nameofthep lace whereequipmentandmachineriesdeployed.	Timeschedulefor movement ofequipment/machineries toworksite for useintenderedwork
01						
02						

Certifiedthat,theabovemachineries shall beavailablesolelyfor thisworkfromthedatementionedagainstthem

Signatureofthetenderer

ANNEXURE–IV(B)SCHEDULE"C"

PLANTAND EQUIPMENTPROPOSEDTOBEEMPLOYEDBYTHEAPPLICANTFORUSEONTHEWORK

Sl. No.	Name ofequipment	Total requirement			Equipmentin hand			Equipmentto beprocured			Whether documentary evidencefurnished	Reference todocumentary evidence	Remarks
		No.ofunits	Kindandmake	Capacity	No.ofeach	Year ofmanufactureandpresent condition	Presentlocation	No.ofeach	Capacity	Throughlease			
1	2	3	4	5	6	7	8	9	10	11	12	13	14

A. ConstructionEquipment

B. VehicleTrucksetc.
ReferenceAnnexureIforlistofessentialequipmentforcontracts.If leasedindicatethedatewhenthecurrentleaseexpires

Signatureofthetenderer

ANNEXURE–V

Nameofthework:to bewritebybidderForwhich

thematerialstobeused.

Sl.No	Typeof product	Nameofthequarry	NameoftheDistrict	Distance/lead toworksite
01				
02				
03				

Certifiedthat,theabovematerialswill beprocured orcollectedfromtheabovequarryfortheabovenoted work.

(Note:Nonsubmissionofthis formatdulyfilled&signedshouldsummarilyberejected)

Nameofthecontractor

Signatureofthetenderer

SCHEDULE-D1

WORKINGEXPERIENCE

D-1.LISTOFSIMILARNATUREOFPROJECTSEXECUTED

Name ofEmployer	Name oflocationand nameofwork	Contractprice inIndianRupees	Itemsofworks	Date ofstarting theworkasper Agreement	Stipulated dateofcompletionofthe work as perAgreement	Actualdate ofcompletion ofthe work	Reasons fordelay instarting/completion, ifany
1	2	3	4	5	6	7	8

(Note:Nonsubmissionofthis formatdulyfilled&signedshouldsummarilyberejected)

Signatureofthetenderer

SCHEDULE-D2

WORKINGEXPERIENCE

D-2.LISTOFSIMILARNATUREOFPROJECTSINPROGRESS

Name ofEmployer	Name oflocation andname ofwork	Contract pricein IndianRupees	Items ofworks	Date ofstarting thework as perAgreement	Stipulateddateofcompletion of the workas per Agreement	Revisedtarget date ofcompletion ofthe work,if any	Reasons forslow progress,ifany ,withthe updated billingamount
1	2	3	4	5	6	7	8

(Note:Non submissionofthisformatdulyfilled&signedshouldsummarilyberejected)

Signatureofthetenderer

SCHEDULE-"E"

INFORMATIONREGARDINGCURRENTLITIGATION,DEBARRINGEXPELLINGOFTENDEREDORABANDONMENT OF WORKBYTHETENDERER

1.a) Isthetenderercurrently involvedin anylitigation relatingtotheworks. Yes / NoIf yes:givedetails:

b) Has the tenderer or any of its constituent partners been debarred/ expelledbyanyagencyinIndiaduring thelast5years. Yes / NoYes /

2.a) Has the tenderer or any of its constituent partners been debarred/ expelledbyanyagencyinIndiaduring thelast5years. NoYes/

3.a) Hasthetendereroranyofitsconstituentpartnersfailedtoperformonanycontractworkin Indiaduring thelast5years. No

If yes,givedetails:

Note:

Ifanyinformationinthisscheduleisfoundtobeincorrectorconcealed,qualification applicationwillbe **summarilyberejected**.

Signatureofthetenderer

SCHEDULE–"F"

AFFIDAVIT

1. Theundersigneddoherebycertifythatallthestatementsmadeintherequiredattachmentsaretrueand correct.
2. Theundersignedalsoherebycertifiesthatneither**our firm M/s_____noranyofitsconstituentpartners/I**have abandoned any road/ bridge/Irrigation /Buildings or other project work in India nor anycontract awarded to us / me for such works have been rescinded during the last fiveyearspriortothedate ofthisbid.
3. Theundersignedherebyauthorizedandrequest(s)anybank,person,firmorCorporation to furnish pertinent information as deemed necessary and as requested bythe Department to verify this statement or regarding my (our) competency and generalreputation.
4. The undersigned understands and agrees that further qualifying information may berequestedandagreetofurnishanysuchinformationattherequestoftheDepartment.

(SignedbyanAuthorizedOfficerofthefirmorBidder)

PART–I
TECHNICALSPECIFICATIONOFCIVILPORTIONOFWORK

Materials of following specification are to be used in work. The tenderer areexpected to possess and be well conversant with the following IS standard and code ofpractice.

1.	Cement	Will be as per I.S. 269/455 (However the grade of cement to beselectedbytheEngineer-in-Chargeofworkandcompressivecubetestbeforecommencementofworkin eachbatch).
2.	Steel	I.S.432(Plain)and1786(Tor)
3.	Vibrator	I.S.7246
4.	Aggregate	I.S.383,I.S.515
5.	Waterformixingandcuri ng	Shall be clean, free from injurious amount of oil, salt, acid,vegetablematerialsandothersubstancesandharmful toconcretein conformitytoI.S.456and I.S.2025.
6.	Sand/FineAggregate	I.S.2116,383
7.	Bindingwire	I.S.280(galvanizedminimum1mm)
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&Fixturesforwo rks joinery	ConformingtoI.S.7452/82strictlyconformtoI.S.specificationandasperdirec tionof Engineer-in-Charge.

Note :For road work (Approach Road) specification as per road and bridges (latest edition)published byI.R.C & M.O.S.T. shall be followed. In case of any doubt and absence ofprovision,regardingspecification I.S. shallbereferred(Indian standard).

ITEMOFWORK

1. Concreteshall bewithconformitytoI.S.456.
2. Foundationshall bewithconformitytoI.S.1080.
3. Stonemasonry(R.R.)shall bewithconformitytoI.S.1597(Part-I)
4. C.R.Masonryshallbewithconformitytol.S.1597.
5. Brickmasonryshallbewithconformitytol.S.2212.
6. Cementplasteringshall bewithconformitytoI.S.9103&6925.
7. Mortarshallbewithconformitytol.S.2250
8. Whiteandcolourwashingshall bewith conformitytoI.S.6278.
9. CCinfoundationshallbewithconformitytoI.S.2571.
10. Anti-TermiteTreatmentshall bewithconformitytoI.S.6813.(Part –I&Part –II)
11. Paintingtoall surfacesshall bewithconformitytoI.S.2395(Part– I&Part –II)
12. DPCshall bewithconformitytoI.S.3067
13. Tarfelttreatmentshallbewithconformitytol.S.1346
14. MosaicflooringwithconformitytoI.S.2114
15. Steelpaintingshallbewithconformitytol.S.1477 (Part–I&Part–II)I.S.1661

Sd/-
Block Development Officer
Nilgiri

PART-II
TECHNICAL SPECIFICATION OF INTERNAL ELECTRIFICATIONWORKS

The details of internal wiring, the position of fittings, fans, switches and plugsockets etc. are indicated in the layout drawings. The position of light fittings, fans,switchboards etc. indicated n these drawings are only for the guidance of the supplier andthe actual position of these shall be mutually decided between the supplier and thepurchaser. The supplier shall submit the purchaser of his consideration and approval allrunsofwiringandtheexactpositionofallthepointsandtheswitchboxesfirstmarkedon thepointsbuildings.

Allinternalwiringshallbedone inconformitytothelatestIndianstandardspecification/Rules, code of practice adopted by CPWD and other standard practicesprevalent in the part of the country. For the purpose of the specification the terminologyused shall be as defined in IS:732 and IS:1356 of the definition of points wiring. Theinstallation shall be carried out in conformity to all requirements of IE Act,1910 and IERules1956.

a). Ceilingrosein (incaseof ceilingandexhaustfan).

b). Ceilingroseorconnector(incaseofpendantsexceptstiffpendantpoints)c).Bankplate(incaseofstiffpendant).

d). Socketoutlet(incaseofsocketoutletpoints)

e). Lampsholder (in caseofwallBracket, batten holder bulk head fitting andsimilarotherfittings)

f). Callbell/buzzer(incasewords‘via’theswitchshallberead‘via’theceilingrose /socketoutletforbellpush,wherenoceilingrose/ socketoutletitsprovided.

Thefollowingshallbedeemedtobeincludedinthepointwiringa).Switchandceiling rosearerequired

b). In case of wall brackets, bulk head fittings, cables as required up to the lampholders]

c). Bushedconduitforporcelaintubingwherecablespassthroughwalls.

d). All wood or metal blocks, boards and boxes, R.J. Boxes sunk or surface typeincludingthose requiredforfanregulatorbutexcludingthoseunderthedistribution board andmain controlswitch.

e). Earthwirefrom3pinsocketpointtothecommonearthincludingconnectiontotheearthdolly.

f). Earthwireof16SWG/14SWG/I.G. wireforloopearthingofthefixture

g). All fixing accessories such as clips, nails, screw, plug, rawl plug, wooden plug,roundblocksetc.asrequired

h). Jointforjunctionboxesandconnectingthesameasrequired

i). Connections to ceiling rose or connection socket outlet, lamp holders, switch, fanregulators etc.

The point wiring in case of fan and light points shall mean the distance betweenthe control switch and ceiling rose, connect or back plate, socket outlet or lamp holderdepending upon the fittings measured along the runs of wiring irrespective of the numberof wires in run. In the case of socket outlet points, the length shall mean the distancebetweenthesocketoutletandthetappingpointoflivewireonthenearestswitchboardorjunctionbox,asthe casemay be.

In the case of exclusive socket outlet circuits wired on 'Joint Box' system of wiring,any junction provided for extending the wiring beyond the point referred to, shall betreated as the nearest tapping point. In case of call bell / buzzer points the length shallmean the distance between the call bell and the ceiling rose / socket outlet or the bellpush(whentheceilingrose/socketoutlet isnot used).

Sub main shall include the earth wire of adequate size main distribution Board upto sub distribution board B.B. such wiring has been classified on the basis of length. Forthe internal lighting, either surface conduct wiring system or recessed conduit or battenwiringsystem shallbeprovidedasspecificin thebillofquantitiesandworkingdrawings.

Conduitwiring

For recessed conduit wiring system the conduit shall be placed in the ceiling /columns etc. before the casting of the slab or column. The conduit pipes shall be properlypositioned and fixed so that it will not be displaced at the time of concreting. The junctionboxesprovidedshallbe so arrangedthat its cover willbe flushedwiththe finishedsurfaceofthe ceiling orcolumn.

For placing the conduits in the walls, chases of ample dimension shall be madeneatly to fix the conduit in a desired manner. The conduit pipe shall be fixed by means ofstapleorsaddlesnotmorethan600mmapart.Fixingofstandardbendsorelbowsshallbe avoided and all curves maintained by bending the conduit itself with a long radius willpermit easy drawing of the conductors. Suitable inspection boxes shall be provided topermit periodical inspection and removal or replacement of wires if necessary. There shallbemounted flushwith thewallwith holesinthecoverofthebox.

Theswitchorregulatorboxshallbe madeofmetalonallsidesexcepton thefrontwherebacklightsheetorPerspexcoverpaintedtomatchthecoluresofthewallshallbeusedIcaseofsurfacewiringsystem.Forrecessedwiringsystem,theseboxesshallbemadeflushwiththeconduitofeachconduitorsectionshallbecompletedbeforeconductorsaredrawnin.Theentiresystemofconduitafterinstallationshallbetestedormechanical strength and electrical continuity throughout the earthing of the entireinstallation shallbecarriedoutinaccordancewith I.E.Rulesandstandards

Thenumberofwiresdrawnintheconduitsshallnotexceedthenumbersthosespecifiedin Indianstandardspecification No.732.

MainandSubdistributionBoards:

The position of main boards for lighting and sub distribution board for differentbuildings are approximate and the exact location shall be given to the successful tendereratthetimeofinstallation.

Thescopeofthisspecificationincludesinstallationofthepanelboardsanddistribution boards and making necessary connections. The installation of the boards shallbe done strictly in accordance with the details supplied with the specifications; theinstructionssuppliedbytheswitchgearmanufacturer,Indianstandardspecificationsand H.E.rules.

The supplier shall submit the details of installations to the purchaser for hisconsideration and approval,priortoinstallation.

When the switchboards are wall / column mounted top, they shall, be mounted ona suitable angle iron framework. All the metal supports etc. shall be protected againstcorrosion.The mountingheightfor suchswitchboards shallbe suchthatitcanbeconveniently operated.

Earthing

Earthing shall generally be carried out in accordance with the requirements ofIndianElectricityRulesandtherelevantrulesandregulationsofelectricalsupplyauthorities.Thecompleteearthingworkfortheinstallationcoveredbythisspecifications

shall also be provided taking into account Indian Standard Specification No.IS:732 andIS:3043.Theearthingsystemadoptedshall alsohaveadequatemechanical strength.

The work shall include earthing non current carrying metallic parts of all theequipment, light fittings, conduit pipes, cable and cable supports and earth strips (thedesign to be approved by the purchaser) and all the inter connection between theearthing system to a value mutually agreed upon\ between the purchasers and thesupplier.

Installation,testingandCommissioning:

The supplier shall be responsible for the installation testing the commissioning ofall the equipment and materials supplied by him against this specification. This shall alsoinclude the provision of miscellaneous wiring and supports and earthing in compliancewith Indian Electricity rules and to full satisfaction of the Government Electrical Inspector.All small items such as clamps, bolts, nuts, racks, supports, miscellaneous wiring etc.required to make the installation complete, shall constitute the part of major itemsspecified in the bill of quantities and the tenderer should quote for each item taking theseintoconsideration.

The responsibility of the supplier shall include receiving all the equipment andmaterials at site, storage for required period, handling the same at the site of erection,final execution , erections, revisions of equipment, if any, testing and commissioning andhanding over the installation complete in all respect to the entire satisfaction of thepurchaser's authorized representative. The supplier shall make good of all the damagedequipmentandmaterialsduringthisperiodat hisownexpense.

The supplier shall submit sample of each and every equipment and materials forthe final approval of the purchaser's representatives immediately after the acceptance ofoffer. All the equipment and materials shall be supplied exactly as per to the approvedsamples.Ifatanystagethepurchaserbringstothenoticeofthesupplieranydiscrepancy ordefectthesuppliershallreplacethesameathisownexpense.

The supplier shall render all reasonable assistance to the purchaser in getting theinstallation approved by the Government Electrical Inspector prior to the energization andsupply necessary drawings, test certificates and both for tests carried out at the factoryand site as well as the tests which the inspector may demand. In case any addition ofalternations are required, to be made in the installation or in the equipment as per thedirective of the Government Electrical Inspector / Local Authorities, he same will have tobecarriedout bythesupplier,at hisownexpense.

The position of light fittings, main board, switches, sockets androutes of pipesand cables shown in the drawings are only indicative. The actual position of these shall bedecided at site at the time of execution joints by the supplier and the purchaser'sauthorized representative. The position of light fittings, pipes and board if required, to bechanged / shifted due to the change in the building design etc. by the purchaser'sauthorizedrepresentative,thesame shallbecarriedoutatnoextracost.

All the materials supplied to the contractor according to the Contract condition willbe subject to inspection and approval of the officer or his representative from time totime. The contractor will provide all facilities of such inspections free of cost. At the timeof inspection, the owner of his representative will have full liberty to reject any suchmaterials, which does not conform to the specification / requirement. No claim for anyrejectedmaterials will be entertained by the owner. The contractorwill remove allrejected materials from site at his own cost. And No surplus materials procured by thecontractorwillbeaccepted bytheowner.

The contractor will be responsible to get the Electric installations cleared by theElectricalInspectorofOrissaGovernment.
Onlytheinspectionfee willbereimbursedbyDepartmentonproductionofchallancopy.

InstallationandMaintenanceTools:

The supplier along with the tender shall furnish a complete list of tools, appliancesand accessories required for the installations of switch grass, light fittings, pipes cablesandwires.

Drawings:

Alldrawings,testcertificates,instructionsmanualsetc.shallbeinEnglishLanguageandalldimen sionsandweightsshallbeinmetricunits.

The tenderer shall submit with the tender general arrangement drawings for theinstallations work, typical methods and cabling and cables supports pipe work and pipesupports,typicalmethodsofearthingandfixingoflightfittingsearthingetc.asofferedbyhiminthetender.

The contractor shall submit for the purchaser's approval all layout, the generalarrangement drawings as well as the typical details of all types of installation work inthree sets before commencing the manufacture and the site installations work well inadvancesothat thesiteworkshallnotsuffer.

Afterobtainingapprovaloftheabovedrawingsthecontractorshallsupplythreesets ofthe followingdrawings:

(a) Thearrangementandsupportofconduitpipe
(b) Thepositionoflightfittingsswitches/plugsocketand switchboards
(c) Earthinginstallations
(d) Layoutplanshowingtheentirecablenetwork

On completion of work, the successful tenderer shall supply one set of tracing intransparent linen and five sets of prints of all drawings incorporating all the changes /modifications affected during the execution of the contact. All wiring diagrams shallindicate clearly, the switch board, the runs of main and sub main wiring and the positionofallthepointswiththeircontrols.Allthecircuitsshallbeclearlyindicatedandnumberedinaaccordanc ewithIS:375.Thetechnicalliteraturesandoperatinginstructions and the maintenance manuals shall also be supplied in triplicate to thepurchasers afterthecompletionofthe installationswork.

Test:

ManufacturesstandardtestsinaccordancewithIndianStandardandotherstandards, adopted shall be carried out on all the equipment and accessories covered bythisspecificationsoastoensureefficientandsatisfactoryperformancesofallthecomponents and also the equipment as a whole under working conditions at site. Thetenderer shall submit a complete list of all such tests. If the purchaser, if so desired forspecial tests, to be carried out, under certain conditions the same shall be made by thesuccessfultendererat hisownexpenses.

All equipment shall be tested at site before the commissioning in accordance withthe adopted standard and Indian Electricity Rules. Voltage test shall be carried out oneachcircuit on completionofwiringandcabling.

TechnicalData:

The tenderers shall submit with their tender all such technical data, which arerequired for complete evaluation of the equipment offered. The suppliers shallgivecomplete technical information of the equipmentas detailed in Annexure and relevantIndian standards. The tenderer should supply such details of all equipment and materialsofferedespeciallywithregard tothefollowing.

a) Fuseswitchboardanddistributionboards

b) Lightfittings
c) Conduitsandtheaccessoriesfor them
d) Switches/plugsockets
e) Cableandwires

Thetendershallgivealongwith histenderthefollowingdetails:

a) Completedetailsofearthingelectrodes,earthingstationandearthingconductors
b) Detailsofconduitsupports
c) Detailsofall theequipmentandaccessoriestobesupplied

ExceptiontoSpecifications:

Theobjectofthisspecificationis tohavealltenderersquoteforequivalentmaterials and workmanship. It is, however, understood the certain manufacturers maynotbeabletoofferasspecifiedineverycase,wherethetenderermayfinditnecessarytodeviatefromtheexactletterandnottheintentofthespecification,hemustspecifically state what these deviations may be at the time he submits the tender. Alldeviations must be grouped in one statement.No deviations other than those includes inthetenderwillbepermitted.ThesedeviationsshouldbelistedasperAnnexure.

PVCinsulatedCablesandWires:

For 415V Distribution system, cables of voltage grade not less than 1000V shall beused. These cables shall be heavy-duty class, PVC insulated and PVC sheathed withaluminum/copper conductors. The wires used in the lighting installation shall be PVCinsulated and PVC sheathed copper wire/aluminum wire in case of conduits wiring and of660V grade. Wires of different colours shall be made use of for quick\ identification ofphase wire / neutral wire etc. All cable of wires shall comply with the requirementsregarding the manufacture and testing etc as specified in India Standard Specification IS:1554 and IS:694. The length of cables indicated in the bill of quantities and drawings areonly indicative and the Successful tenderer will be paid for the exact length of cables laidat site. No joint shall be allowed in a run of cables, which can be covered by a possibledrum lengthofcables.

Fuse switch/switch fuse shallbe metalclad dust and verminproof suitable foruse under climatic conditions prevailing at site. Switch fuse / fuse switch units shallcomplyingeneral toIS:1567/4064withregard todesignandconstructional /features.

The ‘ON’ and ‘OFF’ position of the switch handles shall be distinctly indicated andinterlocks shall be provided to ensure that the switch cover cannot be opened unless theswitch is in the ‘OFF’ position. Means shall, however, be provided for releasing theinterlock to permit closing of switch with cover open for testing purposes. Designs withnormal conventional position of switch handles, i.e. with switch handle up in the ‘ON’position and down I the ‘OFF’ position shall be preferred. All live parts inside the switchshallbeproperlysurrounded andinterphasebarriershallbeprovided.

Switchfuse/fuseswitchunits,distributionboardsshallbeprovidedwithnecessary metal fame work so that they can be mounted on wall / columns structure etc.as desired. The panel boards, shall be wall mounted type or floor mounted type asspecifiedinthebillofquantitiesordrawings.Necessary supporting metal frame of approved design shall be provided for all panel boards . The arrangementsof work boards shall be such that the operational handle of the top mounted switches arewithin the convenient of operators (about 1.2 M from the finished floor level) and properspaceshallbeprovidedfortheterminationofthecableintheswitchesprovidedbelowthebus-bars.

The bus-bars within the bus-bar chamber shall be liberally spaced for taking theriser connection. The bus bars with aluminum conductors shall be provided and PVCsleeves of different colour shall be mounted on them for easy identification, Clampedjointsfortakingtheriserconnections,insteadofboltedtypeshallbepreferred.Two

bolted type earthing terminals shall be provided on the switch boards. All individualswitchesshallbeconnectedwithsuitablesizeearthwiretothemainearthingterminalsoftheswitchboard.HangerBoardandshocktreatment/chartsshallbesuppliedwherever required. At the incoming side of each pen phase, 3-neon type indicating lampsshouldbeprovided at themainboard.

SwitchesandPlugSockets

Switches provided for control of light points shall conform to IS:1087 and shall beratedfor5A/15A 250V

CeilingFansandExhaustFans:

Ceiling fans shall conform to Indian standard specification IS: 374-1960. The fansshall be supplied with all standard accessories like regulator and capacitors etc.Theperformances rating of the propeller fans shall in accordance with stipulations of IS:2312.Allfansshallberobustindesignandconstructionandshallbesuppliedcompletewithwallbrackets/clampsetc.

FluorescentFittings:

All fluorescent fittings supplied shall confirm in general to IS:1913 and shall becomplete with all standard accessories like choke, starter and capacitor etc. The type ofenclosure provided for the fittings shallbe of that specified in the billof quantities andtheworkingdrawings.Thematerialsofconstructionforfittingsusedforoutdoorinstallations and for use in the work anodes shall be such that they shall withstand theatmosphericconditioninthat area.

Lamp holders used shall be fully shock proof, spring-loaded rotary type to ensurepositive lamp locking. It should also be not possible to touch live parts of the lamp holderboth after the lamp has been taken out and during the insertion or removal of the lamp.The starters shall be designed to give designed starting characteristics that shall promotefull lamp life. Starter shall have high mechanical strength and topic proof construction. Itshould be incorporated with radio suppression capacitor o adequate rating and\ capacity.Power factor improvement capacitors are provided with hermetically sealed housing toensure long and trouble fee service. Terminal soldering tango shall be provided for easyelectrical connections. The capacitors in general shall confirm to IS:1569-1963 and P.Fimprovement up to 0.95 for twin fluorescent lightfittings and 0.9 for single fluorescentlight fittings is to be maintained. The ballast provided in the fluorescent fittings shallgenerallybeinaccordancetoIS:1534.

Theballastshouldincorporatethefollowingdesignfeatures.

i) Lowworkingtemperature
ii) Correctpreheatingcurrentfortheelectrodes
iii) Properwavefoam
iv) Smallindimensions
v) Correct power supplytothe lamp
vi) Nohum.
vii) Easyconnectionleads.

All themetal construction ofthefittingsshall besuchthattheyshall:

1) Withstandtheatmosphericconditionprevailinginthearea
2) Providemaximummechanicalprotectiontothetubesandfittingsaccessories.
3) Assistsinmaximumanduniform lightdistribution.
4) Allfittingsshallbeprovidedcompletewithflorescentlamps.Alllampsshallconfirm toIS:2418.

IncandescentFittings:

The incandescent fittings shall be supplied strictly as per the details given in theenclosedannexure andbillof quantities, deviation if any regarding design, constructionof materials should be specified clearly. All the metal parts used in construction of thefittings shall have no effect due to dust / fumes / gases likely to exist in the atmosphere.Allthebolts,clamps,nutsandguardwireetcshallbegalvanized.Thewallfittingsshall

be provided with necessary hooks / clamps / supports etc for fixing the light fittings onwall/ ceilingetcasdetailedin thebillofquantitiesand theworking drawings.

Light fittings shall be suitable for connection with 19mm dia. Conduit pipe asrequired. If fittings are to be connected through PVC cables, glands of adequate size andcapacity shall be provided. The lamp holders provided in the fittings shall confirm toIS:1528.

CODES

Codesshallmeanthefollowingincludingthelatestascendantsand/orreplacementifany.

a) IndianBoilerAct,1923 andRulesandRegulationsmadetheirunder
b) IndianElectricityAct,1923andRulesandRegulationsmadethereunder
c) IndianFactoriesAct, 1948andRulesandRegulationsmadethereunder
d) TheminimumwagesAct
e) TheWomen'sCompensationAct
f) ThePaymentofWagesAct
g) TheFatal AccidentAct
h) TheIndustrialEmploymentAct
i) TheEmploymentprovidentFundAct
j) IndianExplosiveAct 1984 theRulesandRegulationsmadethereunder
k) IndianPetroleumAct1934,andRulesandRegulationsmadethereunder
l) A.S.M.E.TestCodes
m) AIRETest,Codes
n) AmericanSocietyofMaterialsTestingCodes
o) StandardsoftheIndianStandardsInstitution

1)	LowTensionCircuitBreakers:	IS 2516-1955PartISec.1
2)	SwitchgearBusBars	IS375-1963
3)	HRCfuselinks	IS2208-1962
4)	Distributionfuseboards	IS2675-1966
5)	Enclosurefor LowVoltageswitchgear	IS214701962
6)	PVCCables	IS1554-1975
7)	TabularfluorescentlampsforCameral lightingservice	IS2418-1963
8)	TungstenFilamentLampsforcameralservice	IS415-1963
9)	CeilingFans	IS274-1966
10)	Floodlights	IS1947-1961
11)	WallGlassflame-proofelectriclightfittings	IS2206-1962(Part1)
12)	WaterTightElectricLightFittings	IS3553-1956
13)	SteelBoxesforEnclosureofElectricalAccessories	IS5133-1969
14)	FittingsforRigidSteel conduit	IS2667-1979
15)	Rigidsteel circuitsforelectrical wiring	IS3837-1966
16)	Accessoriesfor RigidSteel ConduitsforElectrical Wiring	IS3837-1966
17)	SwitchSocket Outlets	IS3837-1966
18)	PVCWiring	IS694-1977
19)	Switchesfordomesticandsimilarpurpose	IS3854-1966
20)	PVCwiring	IS694-1977
21)	CallBell andBuzzers	IS2268-1966
22)	Straightthroughjointboxesandleadssleevesorpaperinsulatedcables	EID-0032-1964
23)	Earthing	IS3043-1966
24)	Electrical Wiringinstallations	IS732-1963
25)	Switchgear	IS3072-1965(PartI)
26)	Lightingprotection	IS2309–1969
27)	PublicAddress system	IS1882-1962
28)	LowTension switchuseunits	IS4064-1978

29) CodeofPracticeforAutomaticFIREALAMsystem IS2189-1970
30) SpecificationforHeatSensitiveFireDetectors IS2175-1977
31) GuideforSafetyprocedureinElectricwork IS5216-1969
32) RubberMatsforElectricworks IS5424-1969

p) Otherinternationallyapprovedstandardsand/orRulesandRegulationstouchingthesubjectmatterofthecontract.

Sd/-
District Project
CoordinatorSS,Balasore

PART-III

ADDITIONALAPPENDIXTOBILLOFQUANTITY:

(ForP.H.ItemsofWork)

1. The quantities of items mentioned in the tender schedule may increase or decreaseduring execution of works but the contractor will complete the work as per histendered rates in accordance with the instruction of Engineer in charge of G.P.H.wing.
2. **Specification:**ThestandardPHDandPWDspecificationwillbefollowedforexecution of work. During the course of execution of work, the instructions of theEngineerinchargeshallbefinaland binding.
3. The Sales Tax elementshould not be added to the analysis of rates and theprevious practice should be followed as per the Works Department letter No. IIT.22-89-18170 dt.18.7.1989
4. There should be no clause either in the tender or in agreement for payment of anyadditional claim on account of Sales Tax on completed works which will be deemedto be recovered by existing omnibus stipulation as per the works Department letterNo.TIT22/89-18170dt. 18.7.89/
5. ItistheresponsibilityoftheContractortoarrangewatchandwardtotheinstallationsuntiltestingcommissioningandhandingoverforwhichnoextrapaymenttowardswatchandwardwillbepaid,
6. Thecontractorshallmaintainaseparatesiteorderbookfor P.H.portionofwork.
7. The P.H. portion of work shall be open for inspection by the authorities of P.H. Circle(R&B) Orissa, Bhubaneswar and the higher authorities and instructions impartedduringthecourseof Inspectionshouldbebindingonthecontractor.
8. Materials not covered by any of the above categories of items in the bill of quantityhave to be approved by the competent authorities before utilizing the ‘same inworks. In such event, the payment of such item will be made as per actual on dueapprovalbythecompetent authority.
9. All materials required for the work shall be supplied by the contractor as perstandardspecificationsappendedwithdueapprovalbytheEngineerincharge.
10. In case the materials as per make specified are not available, the materials ofequivalent make and as per I.S. Specifications or of best quality when not coveredby I.S. Specifications. Can be utilized on prior approval of S.E. / E.E., G.P.H.D, (R &B), Sambalpur or the officers duly authorized by him. It is binding on the part of thecontractor to use such items of materials, which are available in the Departmentalstore,andinsuchcasethedeductionfromthebillswillbemadeatstockissuerates.

TECHNICALSPECIFICATIONSOFP.H.PORTIONOFWORK

A)WATERSUPPLY&SANITARYINSTALLATIONS:

Materialsoffollowingstandardmanufacturersaretobeusedinthework.The

contractorshallindicate,intheoffer,thebrandormakeofthematerials,forwhichtheratesarequoted.

(i) Sanitaryfixtures:

Tobeofbestqualityvitreousware ofporcelain.

(a) Indianwatercloset
(b) FootRests
(c) WashHandBasin
(d) Kitchen Sink — Hindware/Parry
(e) Urinals — Ware/Neycer/ ISImarked
(f) DrainBoard
(g) OrissaCloset
(h) EuropeanWaterCloset&LowLevelFlushingCistern.

(ii) C.I.HighLevelFlushingCisterns: SushilaIndustriesPrabhatIronFoundry/EastIndiaSteel/I.S.I.marked. "

(iii) H.C.I. SoilWastePipes: ConfirmingtoI.S.I.1729-1954,havingI.S.I.Mark.

(iv) C.P.BathRoomFittings : Plaza/JaquarI.S.I.marked&confirmingto-latestISS

(v) BrassFittings: Shakti/Anupama/Luster/1.S.I.Marked.

(vi) GunmetalValves: Anupama/Leader/B.S.I.S.l.marked.

(vii) G.I.Pipes(MediumClass): ManufacturedbyTATA/JINDAL/B.ST.havingI.S.I.Mark.

(viii) GalvanizedIron fittings:I.S.I.markedC/Rbrand.

(ix) Paints: Asian/Berger/Jonson/Confirmingtol.S.S

(x) CastIronManholecoverframe: SushilaIndustries/PrabhatIronFoundry/EastIndia Steelmakeconfirmingtol.S.S.7.26

(xi) StoneWarePipes&Fittings: ManufacturedbyOrissaCeramic Industries/Orissaindustries/KeshabCeramicconfirmingtoI.S.S.SpecificationNo.651/1980 {GradeA)

(xii) P.V.C.(S.W.R.)&ManufacturedbytheSupremeIndustries Ltd.

(xiii)P.V.C (Rigid.) Pipe/Fittings:,Bombay/Oriplast, Balasore DuroplastconfirmingtoI.S.Specification No.4985/81(ClassIV)

(B)BUILDING

MATERIALS:(i)Bricks:

Bricks shall be of locally available best quality kiln burnt. Bricks shall be wellburnt, uniform deep red, cherry or copper colored, free from cracks and flows,well shaped, uniform in size, homogeneous in textures and shall omit a clearmetallic sound when struck, bricks shall have a minimum crushing strength 75Kg/Cm^2andshallnot absorbwatermorethan 20%byweight.

(ii) CementMortar:

Mortar shall be well mixed to a uniform colour and consisting in the proportionas specified in the items of work. Sand shallbe measuredon the basis of itsdry volume and the quantity shall be adjusted for bulking of damp sand.Cement shall be mixed, taking 50 kg. or 0.035 Cum. in volume only requiredquantity that can be consumed within 30 minutes of adding water shall bemixedatonetime.

(iii) Cement: CementshouldconfirmtoIS-269/IS-455.

(iv) Sand: Locallyavailablebestriver sandmediumsize.

(v) CourseAggregates:

Thecourseaggregateshallbeofhardgranitestoneandshallgenerallyconfirm to I.S. 389. Porous Course aggregate shall not be used. The aggregateshall befreefrom clayfilmsandotheradherent coatings.Aggregatecontaining

clay films over the stone materials shall be thoroughly washed. The aggregateshall be from approved quarry and crusher broken. Course aggregates shall becomposed of particles ranging between the sizes 2.36 to the maximum size asmaybespecifiedintherelevantitemofwork,withintherange,theaggregates shallbewellgradedsoastoproduceadenseconcrete.

(vi) Reinforcements:

Mild steel Round Bars, coild twisted and deformed bars of steel of mediumtensile strength will be used as reinforcement as per drawing and design anddirections.

MildsteelbarsshallconfirmtoI.S.;226/1962standardqualityorIS:432/1966 -Grade-l.Black annealed wire (Notthinnerthan24 gauge for tying thereinforcements shallbeused).

TECHNICALSPECIFICATIONFORSANITARY&PLUMBINGWORKS

(A)Sanitary ware&alliedfittings:

1. General:

All Sanitary fixtures and their allied fittings, should be of first quality, manufacturedby Hindustan Sanitary Ware / Parryware / Nycer, These should be approved by theEngineer-in-chargeoftheG.P.H.Wing beforeuse.

2. SquattingPatternW.C.(pan)(OrissaPattern Closets):

The water closet shall be of vitreous China of specified size and pattern, with anintegral flushing rim. It shall have the flushing inlet at the back. The Orissa closetshouldbeof approved qualityconfirmingtoI.S.S.-2656(Part-Ill).

The squatting type Indian Water Closet (Orissa Closet) shall be sunk in floor slopedtowards the panin a workmanship like manner. The closetshallbe fixed onaproper cement concrete base of 1.3.6 proportion, taking care that the cushion isuniform and even, without closet, to receive the specified thickness of the floorfinishing. The joint between the Closet and the P.V.C. (S.W.R) trap shall be madewith W.C. ringand rubber lubricant andshallbeleakproof.

3. FlushingCistern:

The flushing of the Indian water closet (Orissa Closet) shall be done by C.I. orPolyaterine High Level low-level porcelain valve-less symphonic flushing cistern ofapproved brand and quality I.S.I. Marked and capacity as specified. The connectionbetween the cistern and water closet shall be made by 32 dia O.l. flush pipe, madefrom G.I. Pipe (Light Quality) or 32 dia P.V.C, Pipe as specified in the tenderschedule. The flush pipe with an offset should be fixed to wall by using C.I. HolderBat Clamps. The capacity of the cistern should be 10 Ltrs. as per I.S.S. 15 Ltrs. Incase of low-level cisterns. The Cistern shall be fixed on cast Iron or Rolled SteelCantileverBrackets(Bulltintype),whichshallbefirmlyembeddedinthewall,with C.C. 1.2.4. The Cistern shall be provided with 20mm dia P.V.C. Overflow Pipe withfittings, whichshallterminate into mosquito proofcouplingsecuredina mannerthatwillpermitittobe readilycleaned orrenewed.

The 32mm dia Flush Pipe shall be connected to the Water Closet by means ofapproved type joint. The Flush Pipe shall be fixed to wall by using C.I. Holder BatClamps. The bend and the Offset as required in the Flush pipe shall be made cold.The inside of the Cistern shall be painted with two coats of approved black bitumenpaint. The Outerface of the Cistern, Brackets Overflow pipe and Flush Pipe etc.,shallbepaintedwithtwocoatsofanysyntheticenamelpaintofapprovedshadeand make, over a coat of priming. The cost of the rate quoted for the flushingcistern.

TheinletconnectiontotheCisternshallbemadewith450mm1cmg15mmdia P.V.C.HeavytypeconnectionPipe.

4. **WashHandBasin:**

The WashHandBasin shall be of the White Vitreous China of approved quality, makeandbrandI.S.I,marked.Itshallbeone-piececonstructionwithanintegralcombined overflow. The size of the basin shall be as specified. Each basin shall beprovided with one 15 mm dia C.R Brass Pillar Tap, 32mm dia C.R Waste, C.R. Chainand Rubber Plug, Unions, Joints, C.P bottle trap cast complete in all respects ofapprovedquality.

The Basin shall be supported on a pair of R.S. or C.I. Cantilever brackets (built intype) embedded and fixed in wall with cement concrete, 1.2.4. These brackets shallbe painted to the required shade with two coats of approved synthetic enamel paintoveracoatofpriming.

The waste of the Basin shall discharge into a floor trap or Channel through bottletraps as specified. One 32mm dia C.P. Bottle Trap is to be fixed to the Waste of theBasin& the outlet of the bottle trap is to be connected to the waste pipe todischarge the waste to the Pipe, to discharge the waste to the aforesaid floor trap.The inlet connection to the Basin shall be made with 450mm Long 15mm dia HeavytypeP.V.C.connectionpipe.

5. **KitchenSink:**

Unless otherwise mentioned the Kitchen Sink and drain board (if used) shall be ofwhite Vitreous China or fire clay as specified and approved quality, make a brand,confirming to T.S.S, It shall be of one piece construction with integral combinedoverflow.The sizeofthesink andDrainBoardshallbeasspecified.

Each Sink shall be provided with one 15mm dia C.P. brass, Bib Cock, long body,40mm C.P. Waste with overflow C.P. Chain & Rubber Plug, unions etc., complete inallrespectsasspecifiedand ofapprovedquality.

The sink shall be supported on a pair of M.S. or C.I. Cantilever Brackets (Built intype) embedded or fixed in position in the wall by Cement Concrete 1.2.4. Thebrackets shall be painted to required shade with two coats of approved syntheticenamel paint over a coat of priming. The waste should discharge into a floor Trap orChannel. The waste pipe should be 40mm dia P.V.C. Pipe jointed to the waste of theSinkwithaBrassunionnut.

6. **StandingUrinals:**

The Urinals shall be flat pattern lipped front basin of required dimension of WhiteVitreous China and one piece construction with internal flushing box rim of anapproved make and brand as specified. It shall be fixed in the position by*usingwooden plug embedded in the wall with screws of proper size. Each Urinal shall beconnected to a 40mm dia RV.C. Waste Pipe, which shall discharge into a channel offloor trap. The lip of Urinals shall be kept at 525mm from floor level, while fixing theUrinalonwall.

Where no. of Urinals are fixed in a line, the distance between the centre to centre ofeach Urinal shall be kept 750mm. and each Urinal should be separated from one toother by a partition plate. The centre to centre of partition plates shall be kept750mm apart. The partition plate shall be of one-piece 25mm thick marble plates,cut to size and front corners rounded. The partition plates shall be embedded in wallwith cement concrete and finished smooth. The bottom of the partition plate shouldbe kept 350mm above floor level and top should be kept at 1250mm above floorlevel. The plates should project 600mm from wall surface. The width of the plates tobe embedded inside the wall should not be less than 100mm. The thickness of theplatesshallbeminimum25mm.

For flushing the Urinals each Urinals shall be connected with one 20mm dia G.I. Pipe(Medium Class), One of this pipe shall be inserted into the inlet of the Urinal

andjointedwithJuteandputtywhere asthe otherend isconnectedeitherwithaTeeor

Bend with the 25mm dia size Water Pipe Line fixed on the wall horizontal above theUrinals. In each 20mm dia flush pipe one 20mm dia cum-metal Gate value, thewater will flow to thermal of Urinal through the inlet pipe and flush the Urinal. Afterflush, the valve can be closed to avoid wastage of water. One 40mm dia P.V.C.Waste Pipe shall be connected to the waste of each Urinal, to discharge the Wasteinto the Channel of Trap. One end of this Waste pipe shall be made a cup size to fitintotheprojectedwasteand tightened withscrews.

7. SquattingUrinalPlates:

TheUrinalPlatesshallbeofWhiteGlazedVitreousChinawithintegralflushingrimof size 450 X 350mm of approved make and brand as specified. There shall be whitevitreouschannelwithstopandoutletpiecesinfront.Theseplatesshallbefixedon C.C.at 75mmto 100mmabovefloorlevel.

For flushing arrangement, one 25mm dia G.I. Common Water Pipeline (minimumsize) shall be fixed on the wall parallel to floor. For each urinal one 20mm dia G.I.Branch Pipe shall be taken down up to t200mm from floor level just at the centre ofeach plate, in which one 20mm dia Gate Valves is fixed at 350mm above floor level.At 1200mm height, the 20mm dia flush pipe shall be divided into two branches shallbe taken downward and connected to the inlets of the urinals plate at floor level. Byoperating the valve as above, the waterwillrush into the rims of the urinalplateand flushit.

Wheretherearenumberofurinalsfixedinaline,eachurinalshouldbeseparatedby a partition plate fixed in the centre of two urinal plates. The centre-to-centredistanceofthepartitionplatesshallbekept750mm.

The partition plates shall be of one-piece marble plate, 25mm thick, cut to sizes andfront corners rounded. The plates are to be embedded in wall with cement concreteand finished smooth. The bottom of the partition plates shall be kept flushed tourinaltop leveland the toplevelof partition plate shallbe kept at 1200mm fromthe urinal plate top and the projection from the wall shall be 600mm. The width oftheplatetobe embedded insidethewallshould notbelessthan100mm.

(B)Soilandwastepipes andfittings

1. H.C.I.PipeFittings

The Cast iron Soil, Waste and design pipes (spigot & socket joints) shall be of makeand brand as specified (under specification of materials), confirming to I.S.S. 3989-1970 and ISI marked with approved clamps are to be used. The pipes and fittingsshall befree from cracks,laps,pinholes,andotherimperfectionandcarefullycited.

The access door fittings shall be designed and made so as to avoid dead space inwhich filth may accumulate and door shall be provided with 3mm thick rubberinsertion packing whenclosed andbolted.

WEIGHTOFHCIPIPES

2.

Diaof Pipein mm	**Thicknessinmm**	**Lengthofpipe&widthpiece**	
		1.8mtr.D/s	1.8mtr.
50mm	5mm	16.00kg.	15.00kg.
75mm	5mm.	13.83kg.	16.52kg.
100mm	8mm	24.00kg.	22.00kg.
150mm	8mm	26.70kg.	31.82kg.
	Tolerance10%		

3. The jointing should be done with pig lead confirming to I.S. 782-1966 - grade99.94.The spigot and of Pipes and Fittings should enter into the socket end. Theannular space shall be packed with spun yarn gasket, compacted so as to leave adepth for receiving required quantity of lead in a continuous pouring from ladder.Afterpouringleadinthejointsinfull,caulkingistobedonethreetimesroundwith

the caulking chisels, so that the joints may be sealed with lead. The depth of lead ina point should be 35mm and the rest depth of the joint should be packed with spunyarnGasket.

4. RequirementofleadandGasket cementforjointingH.C.I.Pipes(Each Joint)

Diaofpipeinmm.	Leadinkg.	Gasketin kg. (samefor lead&cementjoint)	Cementkg.
100	1.2kg.	0.13kg.	0.12kg.
50	0.36kg.	0.06 kg.	0.06 kg.

5. The inside of the pipes and fittings shall be well coated with special tar or bitumensolution of approved quality. Where the pipe and fittings are laid below the ground,the outer surface of the pipes and fittings shall also to be painted with two coats ofblackanticorrosivepaintofapprovedquality.

   Oncompletionofthework,theexposedpipesandfittingsaretobepaintedwithtwo coats of synthetic enamel paint of approved colour & quality over a coat of redoxideprimer.Thecostofpaint shouldincludeintherates.

6. Soil pipes for ventilation Is to be connected to the sewer at its floor and without atrap and be carried to such a height, at least above roof level, to prevent damage tohealth by commission of foul air, The pipe shall terminate as open and protected byacowl.

7. The waste water pipe shall be connected with the nearest yard gully or a surfacedrain.

8. The traps should be of hard cast iron and should have a water seal at least 50mmdeep.

9. Allthesoilandwastepipesandfittings,afterlaidandfixedshallbesmoketested,to the entire, satisfaction of the Engineer-in-charge. The Cost of testing is to beincluded in the offer. For smoke-test the materials usually burat greases cottonwaste, which gives out a clear pungent smoke, which is easily detected by sight andsmall. Smoke shall be pumped to the drains from the lower end from a smokemachine,whichconsistsoflower,andburner.

(e) P.V.C(S.W.R.)&P.V.C.(Rigid)Pipes &Fittings

The P.V.C. (S.W.R.) and P.V.C. (Rigid), soil Waste & Vant Pipes (Spigot & Socket, &couples joints), shallbe of make& brandas specified(Under Specificationofmaterials)confirmingtoI.S.S.,B.S.S. &DINaretubeused.

Themain specificationofP.V.C.Soil &Wastepipesandfittingareasbelow.

a) Materials–Un-plasticizedPolyVinyl-Chloride(UPVC).
b) Colour -Grey
c) Dimensions -
   (i) Diameter - Fittings - 75mm/110mm/63mm & 63mm.Pipes -75mm,110mm,on lengthsof3.or6 mtr.
d) Wallthickness -Fittings-Minimum3.2mmatanyport.Pipes
   -Asperapplication
   ForRainwater- 75mrn-1.8.to2.2.mm,11Omm-2.5.to3mm
   Waste &Soil- 75mm-1.8to2.2mm,110mm -2.5to 3mm,63mm–
   Undergrounddrainagewith
   light/NILTraffics -110mm -
   2.5to3mmLight/NilinHeavytraffic -110mm3.7to4.3mm
e) StandardConfirmingtoAttributesConfirmsto StandardNo.
   i) Fittings&Wall B.S.4514,DIN10531
      Thickness -DIN19534 I.S.7834-PVC(Rigid)
   ii) PipeWallthickness -IS4905

iii) Rubberring -IS5382

iv) Fittingdimensions -DIN19531- P.V.C.,
DIN19534-S.W.R.
IS-7834V.C.(Rigid)

v) PipeDimensions -IS4985

(a)Layinginstructions&JointingProcedure

a-1JointingofP.V.C.(S.W.R.)Pipes&Fittings

Clean the outside of the pipes spigot and the inside of the sealing groove of thefitting.Applytherubberlubricant,tothespigotend,sealingringandpassthespigot end into the socket, containing sealing ring, until fully homed. Mark andposition of the Socket edge with pencil on the pipe, then withdraw the pipe from thesocketbyapprox.10mmtowardsthermalexpansiongap.

a-2.Fixingof thePipesandfittingson wallsurface.

P.V.C.pipesboth(S.W.R.)&(Rigid),fixedonwallsurface,aretobesupportedby
P.V.C. pipe clips, specially made for these pipes, with horizontal runs, the pipe clipsshould be spaced at intervals of more than 10 times the outside diameter of thepines. In vertical lines the clips are to be spaced at intervals of one meter to amaximumoftwometers according topipediameter.•

a-3JointingofP.V.C.(Right)PipeFittings

Clean the Outside of the pipes and inside of the socket of afitting of the inside ofthe couplers (where 2 plain ended pipes are jointed) of. Apply solvent cementsolution, evenly and smoothly on the outer surface of the pipe end and insidesurface of either the coupler of the socket and pass the pipe end into the socket ofthe fittings. Up to full depth of socket. In case of jointing 2 plain-ended pipes 1st.push the coupler up to half depth on the end of one pipe and the outer half of thecouplershouldbepushedtotheendofotherpipeandthus,both pipes arejointed.

a.4Fixing of P.V.C. pipes and Fittings through holes of Walls or Chajja of roofsetc.

The Walt/concrete slots should allow for a stress free installation, Pipes and fittingsto be inserted into the slots, without a cement base, have to be applied first with athincoat of P.V.C. Solvent cement, followedby sprinklingof dry sand(mediumsize). Allow it to dry. This process gives a sound base for cement concrete fixation,aroundthepipes/fittingswhilemendingthedamages.

AntisyphonagePipes

All the antisyphonage pipes and fittings to be used are of 63mm. If these are notavailable under the items ot P.V.C. (S.W.R.) materials, 63mm pipes and fittings,manufactured under P.V.C.(right) materials can be used, since the raw materials forboth issame.

All traps should have a minimum water seal of 50mm as per I.S. 5329 and IS 2556(Part XIII). Where antisyphonage connection is required, the traps to be suppliedand used should have a 50mm antisyphonage gent horn on the outlet side. All theTraps used with the closets, should be of the size 125mm X 110mm i.e. Inlet(Socketend)of125mm & outlet (spigotend)of110mm only.

InstallationofWater Closet

Determine the correct Location of the P/S Trap & set on a firm base, relative to thefloor finish by pouring concrete on a slab. Bedding can be carried out by pouringconcrete around the trap, ensuring that the traps outlet is left clear of concrete.Place the W.C. Connector ring to the socketed end of 125/110mm R/S trap. Applyrubber lubricant on W.C. Connector ring as well as outer side of water closet(connection point) and now complete the joint by pushing the W.C. to home of125rnm socketofthetrap.

P.V.C.(Rigid)PipesandFittings

63mm (O.D.) P.V.C. Pipes to be used for these work either in antisyphonage systemor elsewhere, should be of "Quick Fit" Pipes Class 2 (4kg. F/Cm^2), Quick Fit, Pipeshaveoneandsocketed.

The P.V.C. (Rigid) fittings, such as 63mm elbow, 63mm equal Tees 110mm x 63mmreduceretc.used in thework,shouldbe ofinjection-moulded fittings.

One -'jointing rubberring willbeavailable,witheachP.V.C. (S.W.R.)pipe andfittingandhence,thecostoftherein willnotbeaddedin thejoint.

10. Measurement

Allpipesshallbemeasurednot/lengthaslaidorfixedandshallbemeasuredoverall fittings such as bends, junctions, traps etc. The length shall be taken along thecounterlineofthepipes andfittings.Fittingswillbecountedextra over.

11. Beforefixingandpainting,thepipeshallbetestedhydraulicallytopressureQ.4Kg/Cm^2 for pipes under I.S.-1729/1964 and at a pressure 0.7 Kg/Cm^2 for pipesunderI.S. 3989-1970without showing anysign of leakage,sweatingoforherdefectofanykind.Thepressureshouldbeappliedinternallyandshallbemaintained fornot less than15seconds.

(c)WaterSupplyPipes andFittings:

1. Materials.

All galvanized Iron Pipes are to be of mild steel continuous welded, screwed tubes,mediumqualityconfirmingtoI.S.S.andbearingISIMarksmanufacturedbyreputed Firms and approved brands as specified. The pipes shall confirm to LS.1239(Part-!)-1975.

All G.I. Fittings shall be of 'R' Brand manufactured by M/s. R.M. Engineering Ltd.,Ahmadabadand'C'brandmanufacturedbyPresentEngineeringworksorequivalentbest quality.

2. LayingofPipes

Thelayoutofthemainsandservicepipesetetc.,willbedoneinaccordancewiththe drawings. The contractor is to mark out the exact position of the pipes andfittings at site and take approval of the Engineer In-charge, before taking up thework.

3. Where the Pipes are laid, underground these must not be laid less than 450mmbelowgroundlevelandcoatedwithonecoatofapprovedblackbituminouspaint.For laying the G.I. pipes and fittings below ground level, the width and the depth ofthetrenches for differentdimensionsforthepipes shallbegivenasbelow:

Dlaof Pipe	WidthofTrench	Depthof Trench
15mmto50mm	300mm	600mm
65mmto100mm	450mm	750mm

The pipes shall be laid on a layer of 75mm thick sand and filled up with sand up to75mm above pipes and the remaining portion of the trench shall then be filled upwith proper ramming as described in "Excavation and refilling". The surplus earthshallbedisposedofasdirected.

Thrust or anchor blocks of cement concrete 1.2.4 in hard granite chips shall beconstructed on all bends or branches to transmit the hydraulic pressure withoutimpairing the ground and spreading it over a sufficient area. Pipes shall not be laidto pass through manholes, catch pit, drain, where, it is unavoidable the pipes shallbe carried in sleeve pipe of M.S./G.I., as approved by the Engineer-in-charge. Therateshould includesuchasituation.

4. Where Pipes run along walls, the same are to be fixed to the wall with holder batclamps/M.S.Hooksasbelow:

Diaofpipeinmm	15	20	25	32	40	50
Horizontalline	2m	2.50m	2.50m	2.50m	3m	3m
Verticalline	2.5m	3m	3m	3m	3.5m	3.5m

Where the pipes are passing through the R.C.C. / Masonry wall / Column / beam orpillars, these must pass through the appropriate higher sizes of C.I/G.I Sleeve Pipesandaretobeincludedintherates.

Incasethepipesareembeddedinwallsandfloorsitshouldbepaintedwithonecoatofanticorrosivepaint ofapprovedquality.,

All pipes should be fixed horizontal and vertical. For taking the pipes through thewalls and floors & roof slabs etc. the holes shall be made by filling with chisels orjumperandnotbydismantlingthebrickworkorconcrete.Afterfixing,theholesshallbe made goodwith cement concrete 1:2:4 and properly finishedwith C.Plaster1.4tomatchtheadjacentsurface.

Union Nuts are to be provided in each of the vertical riser or drop on and from G.l.Tankand nearthe Valveand asandwherenecessary.

The long screw fittings of 3 mtrs.for long horizontal lines and inside the lavatory /Kitchen etc.

5. After laying and jointing the pipes and fittings shall be inspected under workingcondition of pressure and flow. Any joint found leaking pipes should be removed andreplaced without extra cost. The pipes and fittings after they are laid shall be testedto hydraulic pressure of 6 Kg/Cm^2. The test pressure should maintain without loss offoratleast halfanhour.

6. Painting

On completion of the test, the exposed pipes and fittings are to be painted with twocostsofsyntheticenamelpaintofapprovedcolourandbrandover acoatofpriming.

7. Measurement

The length shall be measured in running meter. Correct to centimeter for thefinished work, which shall include the pipes and fittings suchas Bends, Tees,Elbows, etc., but excludes brass or Gun-metal fixture like tap, Cooks, Valves, PVCconnection pipesetc.

8. BallValve

The ball valve shall be high or low pressure class as stipulated in the TenderScheduleandshallconfirmtoI.S.1703-1968,Thenominalsizeofballvalveshallbe that corresponding to the size of Pipe for which it is used. The Bal valve shall beof brass or gun-metal and the float for low pressure polyethylene and for highpressureincopper.

Each and every ball valve while in closed position shall withstand and internallyapplied hydraulic pressure of 20 Kg/Cm^2 for a minimum period of two minuteswithoutleakage orsweating.

Every high pressure ball valve when assemble in working condition, with the floatimmersed to not more than half its volume shall remain closed against a test'pressure of 10.5Kg/Cm^2 and a low pressure ball valve against a test pressure of 5.3Kg/Cm^2.

Polyethylene floats shall be watertight and non-absorbent and shall not contaminatewaterandwithdojointingadhesivejointing parts.

Theminimumthicknessofthecoppersheetusedformakingcopperfloatsshallbe

of0.45mm.The thicknessofmaterialsofthefloatshall beuniformthroughout.

9. Ferrule

The ferrules for connection with C.I. main shall generally confirm to I.S. 2692-1964and shallbe ofnominalbore asspecified. The ferrule shall be fitted with 3screwand 1 plug or valve capable of complete cutting off the supply to the connected pipeas and whenrequired. For fixing the ferrule, the C.I. main shall be drilled andtapped during non-supply hour at 45 to the connected Pipe as that when required.The ferrule must be so fitted, that no portion of the sunk shall be left projectingwithin the main on which it is fitted. After the ferrule is connected, one C.I. bellmouth cover or with bricks (as specified) shall be kept over the ferrule to cover theferruletoprotectitandthecostthereofistobeincludedintheitem,eveniftherеisnomention.

10. Non-returnValve(CheckValves)

The non-return valve shall be of Brass or Gunmetal and shall be of horizontal orverticalflowtypeandofthesizeasspecifiedandconfirmtoI.S.7810-1959and I.S.778-1957. Theapproximateweightsofthevalvesaregivenbelow.

Diainmm	Horizontaltype(in kg)	Verticaltype (inkg)
15	0.30	0.25
20	0.55	0.25
25	0.90	0.75
32	1.25	0.90
40	1.70	1.20
50	2.90	1.45
65	5.25	2.15
80	7.70	4.10
	±Tolerance5%	

11. FootValve

Foot valve is generally placed at the lower end of the suction pipe of the centrifugalpump to prevent the suction pipe from emptying. On vertical non-return valve mayalsobefixed inplaceoffoot-valve.

ThefootvalveshallconfirmtoI.S.038-1967.

12. Watermeters(Domestictypes)

Water meter up to 50m nominal size shall confirm to I.S.-779-1968.The meter bodyshallbeofbronze/Gun-metalandmarkedtoreadinliterscompletewithregistrationboxandlid.Thewatermetersshallbeprovidedwith Strainers.Strainers shall be of material, which is not susceptible to electrolyte, clean and shallbe fitted on the inlet side of water meter. It shall be possible to remove and cleanthe strainer and not permit disturbing the registration box. The offer should includethesame.ThewatermetersshallbearISIMark.

13. Bibcock&Stopcock

These shallconfirm to I.S.781-1967 and bear ISI Mark. The bibcock is a draw offtap with a horizontal inlet and free outlet and stopcock is a valve with a suitablemeans of connection for Insertion in a pipeline for controlling or stopping the flow.Thisshallbeofscrewdowntype.Thecockshallopeninanti-clockwisedirection.The stopcocks should be of C.P open type/concealed type/angle valves type asspecifiedintenderschedule. Bibcockshould bealsoC.PBrassbibcock.

14. Fullway Valve(Brass)

Full way valve is a valve with suitable means of connection for insertion in a pipelinefor controlling or stepping the flow. The valve shall be of brass fitted with a cast-ironwheelandshallbeofgatevalvetypeconfirmingtoI.S,780-1960,openingFullway

andofthe sizeasspecified.

Diainmm	FlangedEndValvesinkg	ScrewedEndValveinkg
15	1.021	0.567
20	1.503	0.680
25	2.498	1.077
32	5.232	1.559
40	6.082	2.268
50	6.691	3.232
65	10.149	6.840
80	13.281	8.845

15.GunMetal FullwayValve

This shall be of the Gun-Metal fitted with wheel and shall be of Gate-Valve typeopening full way. This shall confirm to I.S, 778-1971. Class I. The Valves shouldbear ISIMark.

TECHNICALSPECIFICATIONFORSTONEWAREPIPEETC.

1. StonewarePipes(Materials)

The S.W. pipes & fitting should be of Grade 'A' confirming to I.S 651/1965.The pipesshall be sound, free from visible defects such as fire crack or hair crack and flow orblister. The pipes shall give a sharp clear line when struck with a light hammer andshouldbeperfectlysaltglazed.

InternaldiaofPipeinm.m.	ThicknessoftheBarrelinm.m.	Weightofeachpipeinkg.
100	12	14
150	16	23
200	17	33
230	19	44
250	20	52
300	25	79
350	30	100
400	35	125
450	38	147

Thelength ofpipesis600mm exclusiveoftheinternaldepthof socket.

2. Excavationof TrenchforlayingSewerPipes

The trenches for the pipes shall be excavated to the lines & level as directed. The bedof the trench shall have to be evenly dressed throughout from one change of grade tothe next. The gradient is to stout by means of sight rails and boning rods and requireddepth be excavatedat any point. The depth of the trenchshallnot less thanonemetre, measured fromtop of the pipe to the surface of the ground under roads andnotlessthan 0.75mmelsewhere.Thewidthofthetrench shallbethenominaldiameter of the pipe plus 350m. The bed of the trench if in soft or made up earth, shallbewellwateredandrammedbeforelayingthepipesandthedepressionsifanyshall

be properly filled with sand and consolidated in 200mm layers. Depending on soilcondition, piling may even be necessary if so desired by the EngineerIn-charge. Ifrock is metwith, itshallbe removed150mmbelowthe levelof the pipe andthetrench will berefilledwithsand andconsolidated.

The excavated materials shall not be placed within One Mtr. or half of the depth of thetrench whicheverisgreaterfromtheedgeofthetrench.

The trench shall be kept free from water. Shoring and shuttering shall be providedwherever required. Excavation below water label shall be done after dewatering thetrenches.

After the excavation of the trench is completed, foundation of cement concrete 1.4.8 inhard granite metal (size 40mm) shall be laid with proper level all along under thelength ofthepipewithlaunchingon allaroundconcreteasperdrawing.

3. Laying,Jointing,hunchingof thePipesandfittings.

Drain Pipes (S.W. pipe & other pipes used for drain and Sewer) shall be laid in straightlinesandtothe even gradientsasshowninthelayout drawings.

The socket and of the pipes shall face stream. Adequate care shall be exercised insetting out and determining the level of the pipes and the contractor shall providesuitableinstruments,templates,sightrails,boningrodsandotherequipmentnecessary for the purpose. In the case of pipes with joints to be made with loosecollars, 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 properalignment and prevent. Cement entering the pipes, Cement compound joints is to befinished with proportion 1.1 with 45 beveling. The joints are to be kept wet with wetbag until the same are properly set with. The cement mortar joints shall be cured atleastfor7(Seven) days.

In the case of S.W. Pipe joints (socket & spigot), they should be caulked first withtarredjute (Spun) ofrequireddiameter, almost quarter depthofthe socket, afterwhich cement mortar 1:1 is pushed in with wooden chisel and finishing beveled atoutside at 45 degree. Instead of jute of humprubber gasket of proper size may alsobe used. The whole joint must be cured for not less than three days. In case of pipesless than 250m dia, joints should be made at ground level with three pipes at a timeand for larger ones two pipes at a time and after curing they should be soiled infoundation with the help of the ropes. All pipes should be properly launched withcement concrete 1.3.6 with washed gravel where the pipes are crossing the drain or allround concrete 1.3.6 with washed gravel is to be done to 150 mm thick over the barrelofthepipe.

The whole of the drain work shall be tested when laid, and at the completion of thecontract,tothesatisfactionoftheEngineer-in-chargeandshallberetestedifnecessary until found satisfactory. The test shall be made by means of water underpressure at the highest point of the Section under test and providing an air pipe at thelowerand oftheline.Maximumheadof5(five)fact(1.5m)mustbemaintained.

4. Excavationandrefilling.

Excavation for drain and pipe trenches shall be straight and to correct depth andgradient. The trench bottom shall be of required width as per specification to allowworkingspace forpipejointing.

Excavated materials shall be dumped away from the site as directed by Engineer-in-charge. Suitable precautions are to be taken to prevent in flow of water into theexcavatedarea,during construction.

Thecontractorathisownexpenseshallpumpoutorotherwiseremoveanyorallwaterwhichduringthecontinuanceofcontractmaybefoundintheexcavatedtrenchestokeepthetrenchclear ofwaterduringthework underprogress.

The pipeline shall not be refilled and covered, until the line therein has been passedandtested.

5. **BuriedServices**

Allpipes,cablemainsandotherservicesexposedbytheexcavationsshallbeeffectively supported by timbering or other means for which no extra payment will beallowed. The contractor shall be responsible for any damage occurring to buriedservices and make good the same at his own cost to the satisfaction of the Engineer-in-charge.

6. **Trenchcondition:**

Where a trench is excavated and refilled after laying the pipe, settlement of the earthin the refilled trench take place. The filling above the top of pipe, settles relatively,morethanthesidesofthetrench,therebydevelopingfrictionalresistance.Thecontractorisrequiredtotakespecialprecautionagainstthis,whilerefillingthetrenches.Procedure forbackfillingasstipulatedearliershouldbestrictlyfollowed.

7. **InspectionChambers/Manholes**

Ateverychangeofalignment,gradientordiameterofadrainthereshall beamanholeorInspectionChamber.The maximumdistancebetweenmanholechambershallbe30 metersforthelinelaid straight.

All manhole and inspection chamber shall have internal dimension as shown in drawingandB.O.Q.Thedepthofinvertshallbefixedtothegradient.

The foundation for Manhole shallbe 175mm thick & with cement concrete 1.3.6 inhard stone metal / granite metal of 40mm size. The concrete shall project 150mmbeyondtheexternalfaces ofthebrickwork.

The brick masonry shall be done in cement mortar in the proportion of 1:4 andthickness of the brick wall should be 250mm thick up to 1200mm depth from GroundLeveland beyond that the wallthickness shallbe maintained 375mm.The insidesurface of the walls of the chamber, shall be finished with cement plaster 1.3 and outside with cement pointing 1.3. In addition to this, the inside surface should also beprovidedwithcement punning.

On the top of base concrete channeling on C.C. 1.2.4 with granite chips is to be donekeepingthediameterequaltothediaofdrainpipeanddepthequaltohalfofthediaofpipe. The channel,'should[1]be done longitudinallyat the centre,connecting boththe ends of the pipe. The channel is to be hunched up with concrete 1.2.4 with hardgranite chips of size 12mm sloping upwards from the edge of channel to meet the sideof chamber at gradient of 1.6. The channeland benching are to be finished smoothand cementmortar 1.3and punning unless it is unavoidable. The branchshoulddeliver sewerage in the Manhole in the direction of main flow and the junction must bemade with care so thatthe flow inthe main is notimpeded. Channels for drainscoming from the side of the Manhole Chamber, shall be curved to meet the maindrainagechannels.

The Manhole and Inspection Chambers shall be covered with R.C.C. cover slab ofthickness 100mm to 150mm according to the requirement at site. One C.I. Manholecover of diameter andweight as stipulatedinthe tender schedule shallbe fixed, onthe cover slab. Unless otherwise mentioned the C.I. Cover and Frames and shallconfirm to I.S. 1726/1960. Heavy duty covers etc., under heavy vehicular trafficcondition and capable of bearing wheel loads up to 11.25 tons, are to be used andmedium duty under light type wheel traffic loads and light duty for domestic premisesare to be used. Covers and Frames shall be clearly cast, double water seal type andthey shall be free from all and sand holes. The cover shall be gas tight and water tightwith proper water-seal. The C.I. Cover and frame shall be coated with two coats ofblack bituminous paint. The frame of Manhole cover shall be fixed on the slab while theslab is cast. R.C.C.M.H. covers of 50cm dia and 100mm thickness shall be fitted in lineofC.I.M.H.coverifstipulatedin thebillofquantityofthetender schedule.

8. GullyTrapChamber

The size of chamber for 100mm HCI yard gully shall be of 300mm X 300mm (Inside).Foundation with 100mm thick cement concrete 1.3.6 with hard granite metal of size40mm from outer surface of wall and Brick work in cement mortar 1.4,125rnm thick,depth up to 600mm maximum. The finishing of masonry wall both inside and outsideshould be done in cement mortar 1.4 cement punning should be provided on the innersurface the trap should be buried in cement concrete 1.2.4 in H.G. chips up to themouth and one hinged C.I. Grating of size 300mm x 300mm are to be fixed on the topof mouth of Gully trap to arrest rubbishes shall be provided. The foundation, shouldproject75mmfromouter.

9. Kota/MarbleStoneflooring

The Kota/Marble stones shall be of thickness specified but not less than 20mm and ofuniform with edges absolutely square & straight. They shall be laid in Cement Mortar(1.4) over masonry or concrete base. The sides of the stones shall be arranged to buttagainst each other truly so as to came the joints practically invisible and certainly notmorethan0.8mminwidthanywhere.Thejointsshallnotbefilledwithmortarbutmayafterwards begroutedwithneatwhitecementmixedwithmatchingcolourpigment. When the floor has completely set, it, should be polished with pumice stoneandfinallywithpadsoffelt.

10. Glazedtiledado

The glazed porcelain tiles shall be of approved size and thickness 5mm to 6mm withedges absolutely straight & surface accurately plain. They shall be fixed in 6mm. thickcement mortar 1.3 using cement slurry over pre-cement plastered base. The sides ofthe tiles shall be arranged to but against each other truly so as to make the jointspractically invisible. However, the joints may be granted with white cement mixed withcolorings materials to match the tiles and neatly cleaned leaving no trace of excessgroutingmaterials.Thetiledsurfaceandedgesshouldbeperfectlyverticalandstraight. The corner points must be normally right angled unless the site conditiondemands otherwise,

GENERALCONDITIONS

1. Drawings&Specifications

The Contractor, after the award of the contract and on signing the agreement shall befurnished free of cost two copies of each of the drawings specifications, descriptiveschedules and other details necessary for execution of the work. All further drawingsand details as may be prepared by the department from time to time for reasonabledevelopmentoftheworkdescribedinthecontractdocumentsandreasonablynecessary to explain and amplify the contract drawings and to enable the contractor toexecute and complete the work shall also be supplied in duplicate to contractor free ofcost.

Any further copies of such drawings, required by the contractor shall be paid for byhim.

The contractor shall keep one copy of all the drawings specifications, price schedule ofitemsandquantitiesatworksiteandtheEngineer-in-chargeorhisauthorizedrepresentativeshallatallreasonabletimeshaveaccessto the same.

2. Contractor'sResponsibility.

a) The contractor shall provide at his cost everything necessary for the proper executionof the works according to the intend and meaning of the drawings, schedule of itemsand quantities and specifications taken together, if the same is not particularly shownor described therein, provided that the same can reasonably be inferred there from, tfthe Contractor finds any discrepancy in the drawings or between the drawing andschedule of quantities and specifications, he shall .immediately in writing refer thesametotheEngineer-in-charge whosedecision shallbefinal&binding.

b) Anyworkdoneatanytimeorevenbeforereceiptofsuchdetailsshallbe

removed/replacedbythecontractorwithoutanyexpensetothedepartmentIftheworkisnotinorderandifsodirectedbytheEngineer-in-chargeerrorinconsistenciesin drawings and local conditions affecting the works shall be brought to the notice oftheEngineer-in-chargeimmediatelyforhisdecision.

All drawings, bill of quantities and specifications and copies therefore furnished by thedepartment, are their property. They shall not be used on any other work and shall bereturnedtotheDepartmentonrequestoncompletionandbeforeissueoffinalcertificateorterminationofthecontract.

c) Allmaterialsandworkmanshipshallbeoftherespectkindsdescribedinthespecification. B.O.Q, contract and in accordance with the instruction of the Engineer-in-charge.ThecontractormustsatisfyhimselfaboutthesamewhilefurnishingsamplesforapprovaloftheEngineer-in-chargebeforeincorporationin theworks.
d) The Engineer-in-charge may from time to time cause at his discretion such tests onsamplesofmaterials orworkmanshipofall/anymaterials andwork, ashemayconsider necessary at places of manufacture, fabrication, on the site or at such otherplaces.Theexpenditureincurredforallsuchtestsshall bebornebythecontractor.
e) All approved samples are to be preserved by the contractor in a regular manner in thesiteofficeforinspectionandverificationoftheEngineer-in-chargeorhisrepresentativefromtimetotime.

g) Alteration/Addition&Omissions

The Engineer-in-charge shall make any variation of the form, quality or quantity of theworks or any part thereof that may be in his opinion be necessary and for that purposeor if for any, other reason it shall, in his opinion be desirable, he shall have power toordertheContractortodosoandtheContractorshalldoanyor allotfollowings:.

a) Increaseordecreasethequantityofanyworkincludedinthecontract.
b) Omitanysuch work.
c) Changethelevels,lines,positionanddimensionsofanypart oftheworks,and

d) Executeadditionalworksofanykindnecessaryfor thecompletionofthework.

Nosuchvariationshallinanywayradiateorinvalidatethecontract,butthevalueofall such variations shall be taken into account and shall be added to or deducted fromthe contract sum accordingly, but no such variation shall be made by the contractorwithoutpriorwritteninstruction fromtheEngineer-in-charge.

e) The Schedule of quantities/rates shall be deemed to have been prepared and includedinaccordance withthe method of measurement ofworksetout and as per therelevantspecificationsorin itsabsence relevantI.S. code ofpractice.

Any error in the specification or in quantity or omission of any item from the scheduleof quantities/ rates shall not deviate the contract, but he adjusted by adding to ordeductionfromthecontractsumprovidedthatnorectificationoferrors,ifany,shallbeallowed inthecontractscheduleofrates.

4. Valuationofvariations

a) All extra or additional work done or work omitted shall be valued at the rates and priceset out in the prices schedule of quantities, and/or derived there-from, if in-arriving atthecontractsum,theContractorhaveaddedtoordeductedfromthetotaloftheitems in the tender any sum either as a percentage or proportion, then the samepercentage of proportion shall apply to all items or works in the prices schedule as alsoforvaluationofvariation.
b) If the contract does not contain any rate or price applicable to the extra or additionalwork, or the rate or price in the priced schedule of quantities has become inapplicablein the opinion of the Engineer-in-charge by virtues of such addition or omission, thensuitable rates or price shall be agreed such rates shall be derived by analysis based onstandard schedule of rates of State P.W.D. / P.H.D or in case such is not availabletherein, form any approved schedule with the various elements valued at local marketpriceplus**10(ten)**percenttowardsover-heads.

5. TheOffersarealsotoinclude

a) Tosupplyallmaterials,labour,supervision,services,supports,scaffoldings,approach

road, construction equipment, tools and plants etc., as required for proper executionofalltheitemsoftheworkasperdrawingand specification.

b) To provide all incidental items not shown or specified in particular, but reasonable ornecessary for successful completion of the work in accordance with the drawings,specificationsand scheduleofquantities.

c) Cleaning, Uprooting the stumps, vegetation and old masonry etc., met in the trenchesandexcavations.

d) Providing shoring and shuttering to avoid sliding of the soils and removal of the sameor completion.

e) De-wateringasrequiredanddirected.

f) Excavationatalldepths(Unless otherwisementionedinschedule), stacking separatelyusableanddisposalofsurfaceearthandmaterialsfromsiteasdirected.

g) Curingofail concreteandcementworksasper specificationanddirection,

h) Centering,shutteringasrequiredforall concretework.

i) Bending,binding,tryingthegrill&placinginposition,includingsupplyofallmaterials&labouretc .

|)Toprovidewaterandpowerrequiredforconstructiontestingandcommissioning,

j) Testingofmaterialsandworksasperspecification anddirection

Submittedby

Block Development Officer,
Nilgiri, Balasore

Total:-128(Onehundredtwenty eight)clausesonly

Total:- 112(One hundred twelve)Pages Only

APPROVED

Block Development Officer,
Nilgiri, Balasore