BID IDENTIFICATION NO- ITDAMKG- 8/2026-27

GOVERNMENT OF ODISHA

DETAILED TENDER CALL NOTICE FOR THE WORK

OFFICE OF THE PROJECT ADMINISTRATOR,
ITDA, MALKANGIRI

INTEGRATED TRIBAL DEVELOPMENT AGENCY, MALKANGIRI

No. 3548 /VI- /2026 Date 15.10.2026

e-Procurement Notice

Bid Identification No. ITDAMKG-8/2026-27

1. The **Project Administrator, ITDA, Malkangiri** on behalf of Governor of Odisha invites **Percentage Rate bids** through **Offline mode in** Double Cover System for the works as detailed in the table, from the class of eligible contractors as mentioned in column-6 (six) registered with the State Government and Contractors of equivalent Grade / Class Registered with Central Government / MES / Railways for execution of Civil Works. The bidders should have the necessary Portal Enrolment (with his own Digital Signature Certificate). The registered bidders outside Odisha, can also participate in this process, after necessary Portal enrolment, but shall have to subsequently undergo registration with the appropriate authority of the State Government before award of the work. The bid should be submitted only Offline on the website www.tendersodisha.gov.in.

Sl No	Name of the Work	Block	Approximate Amount put to tender (In Rs.)	Period of Compl-etion	Class of Contractor	Bid Security (EMD)	Cost of bid document (In Rs.)	Last date & time of Offline receipt of bids
1	2	3	4	5	6	7	8	9
1	Construction of 120 seated ST Girls Hostel at Govt. SSD High School, Chitrakonda	Chitrakonda	**3,42,18,983/-**	11 Months	**'A' Class**	**3,42,200/-** (Offline)	**10,000/-** (Offline)	**Dtd 31.10.2026 Up to 5.30 P.M**
2	Construction of 120 seated ST Boys Hostel at Basanti High School, MV-26, Mariwada	Korukonda	**3,34,66,191/-**	11 Months	**'A' Class**	**3,34,700/-** (Offline)	**10,000/-** (Offline)	
3	Construction of 120 seated ST Boys Hostel at Govt. High School, Puspally, Khairput	Khairput	**3,44,04,980/-**	11 Months	**'A' Class**	**3,44,100/-** (Offline)	**10,000/-** (Offline)	

2. Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms & Conditions of contract and other necessary Documents can be seen in the website **www.tendersodisha.gov.in**

3. Bids must be accompanied by Earnest Money Deposit/ Bid security of the amount specified for the work in the **col. 7** of table above, pledged in favour of **PA, ITDA, Malkangiri** and will have to be in any one of the forms as specified in the bidding documents. Bidders desirous to hire machineries or equipments from outside the State or owned but deployed outside the state are required to furnish 2% of the amount put to tender as Bid security.

4. **Exemption of EMD-** Engineer Contractor" desirous to avail the facility of exemption of E.M.D should abide by the norms as contained in No. FA-Codes-6/2011-600/W dtd. 18.01.2011 as furnished in DTCN & is required to submit an affidavit to the effect that he has not yet availed the facility / (Excluding this work) during the current financial year. The name of work for which participated and the authority to whom the tender was submitted must be mentioned in the affidavit, failing which the tender will be rejected. Also he should submit the original engineering license at the time of opening of tender for recording of exemption of EMD with due verification of previous exemption, availed if any. **Affidavit must clearly mention that facility of exemption of EMD has availed for how many works out of three works in the current financial year, failing which the bid shall be rejected.**

6. Now, the successful bidder has to deposit 1% of EMD of the bid amount at the time of execution of Agreement in pursuant to O.M.No. 5992/W Dated 27.04.2021 in shape of **N.S.C./ Post Office Savings Bank Account/ Post Office Time Deposit Account/ Kisan Vikas Patra./ Bank Guarantee in favour of the PA, ITDA, Malkangiri from any Nationalized Scheduled Bank in India counter guaranteed by its local Branch at Malkangiri** pledged in favour of the PA, ITDA, Malkangiri

7. The Bid documents will be available in the website www.tendersodisha.gov.in **from 3.00 P.M of 16.10.2026 to 5.30 P.M of 31.10.2026 for online bidding.**

8. The Bidder must possess **Compatible Digital Signature Certificate (DSC) of Class II or Class III.**

9. Bids shall be received only "**On-line**" on or before 5.30 P.M of 31.10.2026

10. Bids received "**on-line**" shall be opened at 11.00 A.M on 05.11.2026 in the office of the PA, ITDA, Malkangiri, Odisha in presence of bidders who wish to attend. Bidders who participated in the bid can witness the opening of bids after logging on to the site through their DSC. If the office happens to be closed on the stipulated date of opening of Bids as specified, the bids will be opened on the next working day at the same time and venue.

11. Original Bid Security (EMD) & Demand draft towards cost of bid document & affidavits shall be submitted in the office of the undersigned from **of** 10.00 A.M of 02.11.2026 to 04.11.2026 Up to 5.30 P.M during office hours on working days directly through **tender box kept at ITDA office / Registered Post** within the schedule time mentioned above, failing which the bid will be rejected. and if any bidder participated on the online bidding process and has not withdrawn before closing date and fails to deposit cost of bid as above will be liable for action as per clause No. -2 of e-procurement portal.

12. The cost of bid document *(offline)* has to be paid by each bidder as mentioned under ***Column 08*** in shape of Demand Draft drawn in favour of **PA, ITDA, Malkangiri** from any nationalized scheduled bank (mentioned in **column 8** of above table) payable at **Malkangiri** towards cost of bid.

13. ***The Bidder shall furnish, as part of his Bid, a Bid security (offline) for each work separately as per the amount mentioned under Col. 7 of NIT/Contract Data. The bidder shall scan all the written pages of the bid security and up load the same to the system in designated place. The online bidder shall deposit the original copy of the 'bid security' within the specified period mentioned in the DTCN (after receipt date of bid but before opening date & time of bid) with the "Officer inviting the Bid". The Officer inviting the bid shall not be responsible for any postal delay and/or non- receipt of the original copy of the bid security on or before specified date and time.*** The bid Security (EMD) in shape of N.S.C./ Post Office Savings Bank Account/ Post Office Time Deposit Account/ Kisan Vikas Patra./ Bank Guarantee in favour of the PA, ITDA, Malkangiri from any Nationalized Scheduled Bank in India counter guaranteed by its local Branch at Malkangiri / e-Bank Guarantee executed on the National e- Governance Services Limited (NeSL) Digital Document Execution Portal/ Insurance Seurity Bond issued by Insurance company authorised by the insurance Regulatory and Development Authority of India (IRDAI) towards E.M.D/initial Security Deposit/ any other security deposit from the bidder." Except the above mentioned form of deposit other mode of transaction will not be entertained.

14. ***Govt. of Odisha, Works Department has been pleased to fix the Additional Performance Security vide office memorandum no-07764600022025/173, Dt.03.01.2026. Additional performance security shall be obtained from the bidder when the bid amount is (i)Where the bid price is below 0% but not below 10% of the project cost put to bid, no additional performance guarantee/ security percentage is required. (ii) Where the bid price is below 10% but not below 20% of the project cost put to bid, the additional performance guarantee/ security percentage shall be incremented by 0.1% for every percentage of bid price below 10% of the project cost put to bid starting at 11% with the additional bid performance guarantee being 0.1% and this additional performance guarantee percentage shall be applied on the bid price. (iii) Where the bid price is 20% or more below of the project cost put to bid, the additional performance guarantee percentage shall be incremented by 0.2% for every percentage of bid price below 20% of the project cost put to bid in addition to 1% of the bid price and this additional performance guarantee percentage shall be applied on the bid price. (iv) The additional performance guarantee percentage shall be rounded off to the next lower percentage based on whether the decimal point of the percentage of bid price is below 0.5% or next higher percentage based on whether the decimal point of the percentage of bid price is 0.5% or more. (v)The additional performance security shall be treated as part of the performance security. (Vi)Justification for abnormally as low bids shall be scrutinized by the Department Technical Committee and recommended to the competent authority of the Administrative Department for the approval of the Additional Performance Security (APS). An abnormally low bid is one in which the Bid price, in combination with other elements of the bid, appears so low that it raises material concerns as to the capability of the Bidder to perform the contract at the offered price. Procuring Entity may, in such cases, seek written clarifications from the Bidder, including detailed price analyses of its Bid price in relation to scope, schedule, resource mobilization, allocation of risks and responsibilities and any other requirements of the bid documents. If, after evaluating the price analyses, the procuring entity determines that the Bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, the Procuring Entity may reject the Bid/ Proposal. However, it would not be advisable to fix a normative percentage below the estimated cost, which would automatically be considered as an abnormally low bid.***

15. The Amount put to tender is exclusive of GST. The intending Bidders should offer their rates which shall be exclusive of GST applicable as per norms. GST as applicable on works contract shall be paid over the bill amount at the time of payment of Bill.

16. The contractor has to upload an Affidavit regarding correctness of all the document uploaded in the website and also required to submit all relevant documents to the procurement officer such as Original affidavits for authentication, SC/ST price preference / Exemption of EMD as per DTCN.

17. Authority will not be held responsible for system failure, malfunction of internet or traffic jam. Bidders are advised to submit their bids well in advance within the stipulated period. Delay in receipt of offline documents beyond scheduled period will not be entertained.

18. In the event of the specified date of bid opening being declared a holiday/ or any technical error, the bids will be opened at the appointed time on the next working day.

19. The companies or individuals registered with State Government and contractors of equivalent Grade / class registered with Central Government / MES / Railways having registration for Civil, Electrical and P.H. works, if any having both legal competency and expertise in Civil, Public Health and Electrical Engineering works need put tenders for this composite work and the documentary evidence under appropriate Act in support of their legal competency and expertise to execute Civil, Electrical and P.H. work if any invariably should accompany their tender papers.

20. **To avail the 50% exemption of EMD and Price Preference :** The intending SC/ST tenderer (s) upto 'B' Class should upload the scan copy of the caste certificate for exemption of 50% EMD & also upload the copy of application for availing price preference. The attested copy of the certificate and the said application must be submitted to the PA, ITDA during original verification of bid documents.

21 **The documents to be contained**

OFFLINE DOCUMENTS

Documents to be submitted in a separate cover

1) *Original Bid Security(EMD) (offline)* **in shape of KVP,BG, Postal NSC, Post Office One Time Deposit,**
2) *Paper Cost in shape of Demand Draft (offline)*, 3) Affidavits 4) Bid Acknowledgement Copy
(*On the body of the cover super scribed the Name of Tender Work with Project Sl. No & Name of the bidder.*)

ONLINE DOCUMENTS

All Documents consisting of : - Paper Cost, EMD, Affidavits, Contractor Registration Certificate, PAN Card, *Income Tax Returns[(Assessment Year 2026-27)* GST Registration Certificate, Up to date GSTR 3B Return *2026-27 (For Quarterly return filers July 26 to September 2026 and for Monthly return filers August 2026 to be taken*, Similar nature of work. , Memorandum of Understanding with Electrical Contractor for execution of composite work, Registration Certificate, No relation Certificate in plain form, EPFO & ESIC Registration Certificate, No Litigation, Caste Certificate & other requisite documents to be submitted as per DTCN any short fails liable for rejection..

In a double cover system the Technical bid (Offline) will be opened first & after Technical evaluation by the Tender Committee. Original verification of bidders who qualify on the basis of scanned copy submitted Offline shall be carried out and then the Financial bid in Offline mode will be opened only of successful bidders.

21. Other details can be seen in the bid documents. Subsequent Corrigendum (if any) can be only seen in the web site **www.tendersodisha.gov.in**
22. As all works are time bound and critical in nature no extension of time ordinarily will be allowed in the interest of education of Tribal students.
23. DTCN is not to be uploaded by the bidder. The bidder has to only agree / disagree on the conditions in the DTCN. The bidders who disagree on the conditions of DTCN, cannot participate in the tender.
24. **The committee reserves the right to reject the Bids of low performing and habitually slow contractors in ITDA works.**
25. The undersigned authority reserves the right to cancel any or all bids without assigning any reason thereof. Further details can be seen from the website www.tendersodisha.gov.in
26. Scanned copy of affidavits in original must be submitted separately for each work Offline and during original verification. Scanned copy of photo copy of affidavits shall not be accepted for technical evaluation and in such case the bid shall be rejected.
27. In case of doubts regarding any provision of DTCN, office of the PA, ITDA, Malkangiri may be contacted only through e-mail ID – itdamkn@nic.in
28. In case of any complain regarding the bid of any bidder, it should be lodged within 03 (three) days from the date of opening of the Bid, otherwise it will not be entertained.
29. The bidder should read carefully the details terms and condition and abide by the conditions mentioned in the DTCN. He/ she cannot claim for any short fall of document therein lies in the DTCN, if failed to qualify technically in the Tender.
30. **SIGNING OF BID: The 'Offline bidder' shall digitally sign on all statements, documents, certificates uploaded by him, owning responsibility for their correctness/authenticity as per IT ACT 2000. If any of the information furnished by the bidder is found to be false / fabricated / bogus, his EMD/Bid Security shall stand forfeited & his registration in the portal shall be blocked and the bidder is liable to be blacklisted as per Office Memorandum No. 7885/W Dated 23.07.2013 of Works Department, Odisha.**
31. **ST& SC bidders claiming EMD exemption and price preference must mention such claim in affidavit, failing which their bid shall be treated as General category bid.**
32. **Price preference to ST & SC bidders shall be available against L1 bidder of any category as per OPWD Code.**
33. **If any prospective bidder does not agree with the terms and conditions set forth in this DTCN must not apply his / her bid. Bidders who have applied shall be considered to have agreed with the terms and conditions of this DTCN.**
34. The bidder should have satisfactorily completed similar nature of work costing not less than 75% of the tender value of the project during the last five financial years including the current/base year. The required experience may be derived from one single work or from two or three similar works executed during the above period, the combined value of which shall not be less than 75% of the tender value. Similar nature of work means construction of new building works only executed for any authority/body of the State Government or Central Government. The experience certificate must be submitted by the bidder and shall be issued by the concerned officer of the State/Central Government not below the rank of Executive Engineer or an equivalent officer.
35 Condition/ provisions which has been mentioned in this DTCN explicitly shall be followed and if any condition / provision is not mentioned explicitly in this DTCN, then provisions of OPWD code shall prevail.
36. **The checklist is only illustrative in nature; however, the DTCN shall be treated as the main and governing documents.**
37 The amendment of codal & contractual provisions issued vide O.M No. 17941/W Dated 08.10.2026 shall be followed as per norms of the Govt. in Works Department, Odisha, Bhubaneswar.
38 The authority reserves right to cancel any or all bids without assigning any reason thereof.

15.10.26

Project Administrator
ITDA, Malkangiri

Memo No 3549 VI-80/2025, Dev. Date: **15 .10.2026**

Copy forwarded to the State Informatics Officer, NIC, Odisha Unit, Sachivalaya Marg, Unit -4, Bhubaneswar for favour of kind information and necessary action.

Copy to the District Informatics Officer, NIC, Malkangiri for information and necessary action. He is requested to extend necessary cooperation on implementation of GePNIC- Govt. e Procurement system of NIC.

15.10.26

Project Administrator
ITDA, Malkangiri

Memo No 3550 VI-80/2025, Dev. Date: **15 .10.2026**

Copy submitted to the Commissioner-cum-Secretary to Govt., ST & SC Development Department, Odisha Bhubaneswar / Revenue Divisional Commissioner (SD), Berhampur for favour of kind information.

15.10.26

Project Administrator
ITDA, Malkangiri

Memo No 3551 VI-80/2025, Dev. Date: **15 .10.2026**

Copy submitted to the Collector, Malkangiri /Additional District Magistrate,(Rev.), Malkangiri / Superintendent of Police, Malkangiri for favour of kind information and necessary action.

Copy to the Executive Engineer, (R&B) Division, Malkangiri/ S.E., RWS&S ,Malkangiri / E.E. R.W.S&S, Division, Malkangiri/ E.E., M.I Division, Malkangiri / Programme Manager (Technical), Zilla Parishad, DRDA Malkangiri / All the Block Development Officer in the District / All Tahasildars / Executive Officer, Municipality, Malkangiri / NAC, Balimela for information and wide publication.

Copy submitted to The Asst. Executive Engineer, RWSS, Sub-Division, Malkangiri / Deputy Collector, Collectorate, Malkangiri / Asst. Executive Engineer, ITDA, Malkangiri / Asst. Commissioner, CT&GST, Malkangiri for information with a request to attend the office of the undersigned on the opening date, being tender Committee member.

15.10.26

Project Administrator
ITDA, Malkangiri

Memo No 3552 VI-80/2025, Dev. Date: **15 .10.2026**

Copy to the all the Jr. Engineers/ Asst. Executive Engineer / Section Officer / Cashier/ DEO, ITDA, Malkangiri for information and necessary action.

Copy to the office Notice Board.

15.10.26

Project Administrator
ITDA, Malkangiri

INTEGRATED TRIBAL DEVELOPMENT AGENCY, MALKANGIRI

e-Procurement Notice

Bid Identification No. ITDAMKG- 08/2026-27

1. The **Project Administrator, ITDA, Malkangiri** on behalf of Governor of Odisha invites **Percentage Rate bids** through **Offline mode in Double Cover System** for the type of works given in the table, from the eligible contractors of Class (A Class) or of equivalent range registered with the state Governments and Central Government / MES / Railways for execution of Building work. The proof of registration from the appropriate authority shall be enclosed along with the Bid. The successful bidder who has not registered under state Government has to register under the state PWD in appropriate class of eligibility before signing of the agreement. The bid should be submitted only Offline on the website www.tendersodisha.gov.in

Name/ Type of works	:	**Const. of 120 seated Hostel Building in different location**
No. of works	:	**03 Nos. (Three)**
Amount put to Tender	:	**As laid down in the DTCN**
Tender paper cost	:	**As laid down in the DTCN**
E.M.D Amount Required	:	**As laid down in the DTCN**
Period of completion	:	**As laid down in the DTCN for each work.**
Date & time of availability of bid document in the portal	:	**From 3.00 P.M of 16.10.2026 to 31.10.2026 up to 5.30 P.M.**
Last Date/ time for receipt of bid in the portal	:	**From 3.00 P.M of 16.10.2026 to 31.10.2026 up to 5.30 P.M.**
Last Date/ time for submission of paper cost & other documents	:	**From 10.00 AM of 02.11.2026 to 04.11.2026 up to 5.30 P.M. (During office hours in working days) in the tender box kept at ITDA / Through Registered Post**
Date of opening of Tender	:	**05.11.2026 (At 11.00 A.M)**
Further details can be seen from the e-procurement portal www.tendersodisha.gov.in		

Project Administrator
ITDA, Malkangiri

Memo No 3553 VI-80/2025, Dev. Date: **15 .10.2026**

Copy to the District Information and Public Relation Officer, Malkangiri for information & necessary action.

Copy submitted to Deputy Director, (Advt.), I & P.R. Deptt., Odisha, Bhubaneswar for favour of kind information with a request to publish the above e-procurement Tender Call Notice in two Odia Local Newspaper for one day within the scheduled date (Size -10 x 8 cm (Black & White) . The charges will be paid as per approved rate of Govt. in I & PR Deptt. Odisha. Complimentary copy of the Newspapers containing the tender call notice may be sent to this office for reference and record.

Project Administrator
ITDA, Malkangiri

CHECKLIST TO BE SUBMITTED BY THE BIDDER

Sl. No	Particulars	Whether furnished		Remarks
		Yes	No	
01.	Cost of tender paper (Offline)(financial instrument shall be furnished as per NIT Col. 08)			
02.	Bid Security - E.M.D (financial instrument shall be furnished) (Offline)			
03.	Copy of valid Registration Certificate			
04.	GST Registration Certificate, Up to date GSTR 3B Return *2026-27 (For Quarterly return filers July 26 to September 26 and for Monthly returns filers August 2026 to be submitted) along with Recent Challan*			
05.	*Income Tax Return for the Assessment Year 2026-27*			
06.	No Relationship Certificate			
07.	Copy of Caste Certificate in case of SC/ST.			
08	Similar nature of works(The bidder should have satisfactorily completed similar nature of work costing not less than 75% of the tender value of the project during the last five financial years including the current/base year. The required experience may be derived from one single work or from two or three similar works executed during the above period, the combined value of which shall not be less than 75% of the tender value. Similar nature of work means construction of new building works only executed for any authority/body of the State Government or Central Government. The experience certificate must be submitted by the bidder and shall be issued by the concerned officer of the State/Central Government not below the rank of Executive Engineer or an equivalent officer.)			
09	Affidavit of Engineer Contractor for EMD Exemption			
10	Information regarding current litigation, debarring / expelling of the tender or abandonment of the work by the tenderer			
11	Affidavit for authenticity of documents (Schedule-F)			
12	Memorandum of Understanding with Electrical Contractor for execution of composite work (Schedule – J)			
13	EPFO & ESIC Registration Certificate			
14	Certificate of Tools & Plants (owned / hired)(*Minimum 75% marks to be secured for eligibility as per Annexure-C*))			

**. The bidder should read carefully the details terms and condition and abide by the conditions mentioned in the DTCN. He/ she cannot claim for any short fall of document therein lies in the DTCN, if failed to qualify technically in the Tender.*

*** Separate affidavits Schedule-F for each aspect as mentioned above must be submitted otherwise bid shall be rejected.**

Signature of the bidder

CONTRACT DATA

A. GENERAL INFORMATIONS

Sl No	Item	Details
1	**Bid Identification No.**	Bid Identification No - **ITDAMKG-08/2026-27**
2	**Officer Inviting Tender**	Project Administrator, ITDA, Malkangiri .
3	**Project Administrator with headquarters.**	Malkangiri
4	**No of Re-tendered / Fresh tendered Projects**	**03 Nos.**

B. BID INFORMATION

5	Intended completion period/Time period assigned for Completion		**As per DTCN Reference Page No. 02 & 03 (Column Sl. No. 05)**
6	Last Date & time of submission of Bid online		**5.30 P.M.** **Date: 31.10.2026**
7	Cost of Bid Document		
	i	Bank draft amount	**As mentioned against the project in the Tender Notice. (Column No. 08)**
	ii	in favour of	PA, ITDA, Malkangiri.
	iii	payable at	Malkangiri
8	Bid Security		
	i	Amount	**As mentioned against the project in the Tender Notice. (Column No. 07)**
	ii	in favour of	PA, ITDA, Malkangiri
	iii	payable at	Malkangiri
	iv	Type of instrument	As specified in the bid document
9	Bid validity period		180 days
10	Minimum period of contract / agreement / lease deed of equipment and machineries		**11 (eleven) Calendar Months**
11	Currency of payment for Contract		Indian Rupee
12	Language of Contract		English

Guidelines / Procedure to be followed in e-procurement as per Works Department, Government of Odisha office Memorandum No.7885 Dt.23.07.2013 / Instruction to bidder

The following shall be made part of the detailed tender call notice.

Appendix-IX (A) of OPWD Code, Vol-II

Executive instructions regarding calling for and acceptance of tenders in e-Procurement.

1. This office memorandum consists of the procedural requirement of e-procurement and shall be made part of the Detailed Tender Call Notice or Instruction to Bidder for all works" tenders hoisted in the portal.
2. The e-procurement portal of Government of Odisha is **''https:// tendersodisha.gov.in".**
3. Use of valid Digital Signature Certificate of appropriate class (Class II or class Ill) issued from registered certifying authorities (CA) as stipulated by Controller of certifying Authorities (CCA), Government of India such as n-Code, Sify, TCS, MTNL, e-Mudhra is mandatory for all users.
4. The DSC issued to the Department users is valid for the period of two years only All the Department users are responsible to revalidate their DSC prior to expiry.
5. For all purpose, the server time displayed in the e-Procurement portal shall be the time to be followed by all the users.
6. Government after careful consideration have decided to hoist all tenders costing 10 lakhs or above in the e-procurement portal. This will be applicable across all Engineering Departments such as Works Department, Department of Water Resources, Rural Development and Housing & Urban Development Department. Government of Odisha also welcomes hoisting of tenders by any other departments, authority, corporations, and local bodies etc. of the State with prior approval from Works Department. Works Department is the Nodal Department for the implementation of e- procurement in the State.
7. The e-procurement shall be operated compliant to relevant provisions of OGFR/ OPWD code / Accounts codal Government statues including any amendments brought from time to time to suit to the requirement of the best national practice.
8. Registration in the e- procurement portal is without levy of any charges but Government reserves the right to levy any charges for such value added services in future.
9. Contractor not registered with Government of Odisha, can participate in the e- procurement after necessary enrolment in the portal but have to subsequently register themselves with the appropriate registering authority of the State Government before award of the work as per prevalent registration norms of the State.
10. For the role management "Department" is the Administrative Department, Organisation or wing is the Chief Engineer or highest tender accepting authority or equivalent officer, Division is the Executive Engineer or equivalent Officer and Subdivision is the Assistant Engineer or equivalent officer.
11. The e-Procurement software assigns roles for operation of the module for specific function. The terminologies used in the portal and their respective functions in the software are as follows.

11 . 1 Application Administrator (NIC & State Procurement Cell)

I. Master Management

ii. Nodal Officer Creation

iii.. Report Generation

iv. Transfer of Officer's login ID.

v. Blocking & unblocking of officer's and bidder's login ID.

11.2 Nodal Officer (At organization level not below the Superintending Engineer or equivalent rank)

I. Creation of Users

ii. Role Assignment

iii. Report Generation

iv. Transfer of Officer's login ID.

v. Blocking & unblocking of officer's Login ID.

11.3 Procurement Officer-Publisher (Officer having tender inviting power at any level)

i **i. Publishing of Tender**
ii **ii.** Publishing of Corrigendum / addendum / cancellation of Tender
iii **iii. Bid Clarification**
iv **iv.** Uploading of Pre-Bid minutes.
v **v. Report generation.**

11.4 Procurement Officer-Administrator (Generally sub-ordinate officer to Officer inviting Tender)

i. Creation of Tender

ii. Creation of Corrigendum / addendum / cancellation of Tender

iii. Report generation.

11.5 Procurement Officer Opener (Generally sub-ordinate officer to Officer Inviting Tender)

i. Opening of Bid

11.6 Procurement Officer Evaluator (Generally Sub-ordinate Officer to Officer Inviting Tender)

i. Evaluating Bid

11.7 Procurement Officer-Auditor (Procurement Officer Publisher and/or Accounts Officer / Finance Officer)

i. To take up auditing

12. **NOTICE INVI-TING BID (NIB) or INVITATION FOR BID (IFB):**

12.1 The Notice Inviting Bids (NIB) and Bid documents etc., shall be in the Standard formats as applicable to conventional Bids and will be finalized / approved by the officers competent as in the case of conventional Bids.

12.2 The officers competent to publish NIB in case of conventional Bids will host the NIB in portal. Simultaneously, a notification should also be published in the newspapers, as per existing rules preferably, in the following format, to effect economy:-

Government of Odisha "e" procurement Notice Bid Identification No .----------

1. Name of the work: .....
2. Estimated cost: Rs. .....
3. Period of completion .....
4. Date & Time of availability of bid document in the portal
5. Last Date / Time for receipt of bids in the portal
6. Name and address of the O.I.T.: .....

Further details can be seen from the e-procurement portal https://tendersodisha.gov.in

12.3 The tender documents published by the Tender Inviting Officer (Procurement Officer Publisher) in the website https://tendersodisha.gov.in will appear in the "Latest Active Tender". The Bidders/Guest Users can download the Bid documents only after the due date & time of sale. The publication of the tender will be for specific period of time till the last date of submission of bids as mentioned in the 'Notice inviting Bid' after which the same will be removed from the list of "Latest Active tenders".

13. **ISSUE OF ADDENDA/ CORRIGENDA/ CANCELLATION NOTICE:**

13.1 The Procurement Officer Publisher (Officer inviting Tender) shall publish any addendum/ corrigendum /cancellation of tender in the website https:// tendersodisha.gov.in, notice board and through paper publication and such notice shall form part of the bidding documents.

13.2 The system generates a mail to those bidders who have already uploaded their tenders and those bidders if they wish can modify their tenders. The bidders are required to watch the website till last date and time of bid submission for any addendum/ corrigendum / cancellation thereof. Tender inviting Authority is not responsible for communication failure of system generated mail.

14. CREATION AND PUBLISHING OF BID:

14.1 All the volumes/documents shall be uploaded in the portal by the tender creating officer (Procurement Officer Administrator) and published by the Officer inviting Tender (Procurement Officer Publisher) using their DSCs in appropriate format so that the document is not tampered with

14.2 The tender document comprise the notice inviting tender, bid document/SBD, drawings in .pdf format and the schedule of quantities / BoQ in .xls format to be uploaded by the Officer inviting Tender.

I.3 Procurement Officer Administrator creates tender by filling up the following forms:

I. BASIC DETAILS

II. COVER CONTENT: The Procurement officer Administrator should briefly describe the name and type of documents to be uploaded by the bidder in the following format:

(a) **For Single Cover/Packet:**

Sl.No.	Cover Type	Document Description	Type
1	Fee / Prequal / Technical / Finance	Tender Cost, EMD, GST Registration Certificate and GSTIN, PAN, Contractor RC, Affidavits, undertakings and any other documents as per SBD/DTCN.	.pdf
		BOQ	.xls

(b) For Two Cover/Packet:

Sl.No.	Cover Type	Document Description	Type
1	Fee/ Prequal/ Technical	Affidavits, undertakings and any other document as per SBD/DTCN	.pdf
2	Finance	BOQ	.xls

iii. **TENDER DOCUMENT:** - The Procurement Officer Administrator should upload the NIT in .pdf format.

iv. **WORKITEM DETAILS**

v. **FEE DEATILS**: The Procurement Officer Administrator should mention the cost of tender paper and EMD amount as laid down in DTCN/SBD.

vi. **CRITICAL DATES:** The Procurement Officer Administrator should mention the critical dates of tender such as publishing date, document download start date & end date, seek clarification start date & end date (optional), bid submission start date & closing date, bid opening date as per DTCN/SBD.

vii. **BID OPENER SELEC-TION:** The Procurement Officer creator can select two /three / four bid openers for a particular bid. If required the bid openers can also be selected within an organization from other procurement units (Circles /Divisions).

viii. **WORK ITEM DOCUMENTS:** The Procurement Officer Administrator should upload the digitally signed tender document (SBD/DTCN) or any other addition document/drawings in .pdf format and Bill of Quantities in .xls format.

ix. **PUBLISHING OF TENDER**: The Procurement Officer Publisher shall publish the tender using his/her DSC after detail scrutiny of the fields created and documents uploaded by the Procurement Officer Administrator. Procurement Officer Publisher can publish tenders for multiple procurement units using multiple DSCs procured for each post separately. After being relieved from the additional charges he has to surrender the additional DSCs to the Nodal Officer of the concerned 10alvanized10o.

15. PARTICIPATION IN BID:

15.1 **PORTAL REGISTRATION:** The Contractor/Bidder intending to participate in the bid is required to register in the portal using his/her active personal/official e-mail ID as his/her Login ID and attach his/her valid Digital signature certificate (DSC) to his/her unique Login ID. He/She has to submit the relevant information as asked for about the firm/contractor. The portal registration of the bidder/firm is to be authenticated by the State Procurement Cell after verification of original valid certificates/documents such as PAN and (ii) Registration Certificate (RC) / GST Registration Certificate (for procurement of goods) of the concerned bidder. The time period of validity in the portal is at par with validity of RC. Any change of information by the bidder is to be re authenticated by the State Procurement Cell. After successful authentication bidder can participate in the Offline bidding process.

15.1 .1 Bidders participating through Joint Venture shall declare the 10authorized signatory through Memorandum of Understanding duly registered and authorized in the portal in the name and style of the Joint venture Company. It is mandatory that the DSC issued in the name of the 10 authorized signatory is used in the portal.

15.1.2 Any third party/company/person under a service contract for operation of e-Procurement system in the State or his/their subsidiaries or their parent companies shall be ineligible to participate in the procurement process that are undertaken through the e-Procurement system irrespective of who operates the system.

15.2 **LOGGING TO THE PORTAL:** The Contractor/Bidder is required to type his/her Login ID and password. The system will again ask to select the DSC and confirm it with the password of DSC as a second stage authentication. For each login, a user's DSC will be validated against its date of validity and also against the Certificate Revocation List (CRL) of respective Cas stored in system database. The system checks the unique Login ID, password and DSC combination and authenticates the login process for use of portal.

15.**3** **DOWNLOADING OF BID:** The bidder can download the tender of his choice and save it in his system and undertake the necessary preparatory work off-line and upload the completed tender at his convenience before the closing date and time of submission.

15.4 **CLARIFICATION ON BID:** The bidder may ask question related to tender Offline in the e-procurement portal using his/her DSC; provided the questions are raised within the period of seeking clarification as mentioned in tender call notice/Bid. The Officer Inviting the Bid / Procurement Officer-Publisher will clarify queries related to the tender.

15.5 PREPARATION OF BID

15.5.1 The bids may consist of general arrangements drawings or typical or any other drawings relevant to the work for which bid has been invited. Bidder may download these drawings and takeout print for detail study and preparation of his bid. Any other drawings and documents pertaining to the works available with the Officer inviting the bid will be open for inspection by the bidders.

15.5.2 The Bidder shall go through the Bid carefully and list the documents those are asked for submission. He shall prepare all documents including cost of Bid Document, Bid Security, Declaration form, price bid etc. and store in the system.

15.6 **PAYMENT OF EMD /BID SECURITY AND COST OF BID DOCUMENTS**:
(Amendment vide Works Department Office Memorandum -14468 dt. 20.09.2018 Govt. of Odisha.)

15.6.1 The Bidder shall furnish, as part of his Bid, a Bid security for the amount mentioned under NIT/Contract Data. The bidder shall scan all the written/printed pages of the bid security and up load the same in portable document format (PDF) to the system in designated place of the technical BID. Furnishing scanned copy of such documents is mandatory otherwise his/her bid shall be declared as non-responsive and liable for rejection.

15.6.2 The EMD or Bid Security payable along with the bid is 1% of the estimated contract value (ECV) or as mentioned in the bid document. The validity period of the EMD or Bid Security shall be as mentioned in the bid document. Any bid not accompanied by an acceptable Bid Security and not secured as indicated in the bid document shall be rejected as non-responsive. The bid security shall be retained till such time the successful bidder furnishes Initial Security Deposit (ISD) or Performance Security acceptable to the Officer Inviting the Bid. Failure of the successful Bidder to comply with the requirements shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security.

15.6.3 The tender accepting authority will verify the originals of all the scanned documents of the successful lowest bidder only within 5 days of opening of the tender. In the eventuality of failure on the part of the lowest successful bidder to produce the original documents, he will be debarred in future from participating in tender for 3 years and will be black listed by the competent authority. In such a situation, successful L-2 bidder will be required to produce his original documents for consideration of his tender at the negotiated rate equal to L1 bidder.

15.6.4 Contractor exempted from payment of EMD will be able to participate in the tender directly by uploading documentary evidences towards his eligibility for such exemption.

15.6.5 Government of Odisha has been actively considering integrating e-payment gateway in to the portal for payment of Cost of Bid and Bid Security/ Earnest Money Deposit. The process of using e-payment gateway shall be issued separately after it is established.

16. SUBMISSION OF BID:

16.1 The bidder shall carefully go through the tender and prepare the required documents. The bid shall have a Technical Bid & a Financial Bid. The Technical bid generally consist of cost of Bid documents, EMD/Bid Security, PAN Card, GST Registration Certificate, Registration Certificate, Affidavits,. The Financial Bid shall consist of the Bill of Quantities (BOQ) and any other price related information/undertaking including rebates.

16.2 Bidders are to submit only the original BoQ (in .xls format) uploaded by Procurement Officer Publisher (Officer Inviting Tender) after entering the relevant fields without any alteration/ deletion / modification. Multiple BoQ submission by bidder shall lead to cancellation of bid. In case of item rate tender, bidders shall fill in their rates other than zero value in the specified cells without keeping it blank. In the percentage rate tender the bidder quoting zero percentage is valid and will be taken at par with the estimated rate of the work put to tender.

16.3 The bidder shall upload the scanned copy/copies of document in support of eligibility criteria and qualification information in prescribed format in Portable Document Format (PDF) to the portal in the designated locations of Technical Bid.

16.4 The bidder shall write his name in the space provided in the specified location in the Protected Bill of Quantities (BOQ) published by the Officer Inviting Tender. The bidder shall type rates in figure only in the rate column of respective item(s) without any blank cell in the rate column in case of item rate tender and type percentage excess or less up to two decimal place only in case of percentage rate tender.

16.5 The bidder shall log on to the portal with his/her DSC and move to the desired tender for up loading the documents in appropriate place one by one simultaneously checking the documents.

16.5.1 Bids cannot be submitted after due date and time. The bids once submitted cannot be viewed, retrieved or corrected. The Bidder should ensure correctness of the bid prior to uploading and take print out of the system generated summary of submission to confirm successful uploading of bid. The bids cannot be opened even by the OIT or the Procurement Officer Publisher/ opener before the due date and time of opening.

16.5.2 Each process in the e-procurement is time stamped and the system can detect the time of log in of each user including the Bidder.

16.5.3 The Bidder should ensure clarity /legibility of the document uploaded by him to the portal.

16.5.4 The system shall require all the mandatory forms and fields filled up by the contractor during the process of submission of the bid/tender.

16.5.5 The bidder should check the system generated confirmation statement on the status of the submission.

16.5.6 The Bidder should upload sufficiently ahead of the bid closure time to avoid traffic rush and failure in the network.

16.5.7 The Tender Inviting Officer is not responsible for any failure, malfunction or breakdown of the electronic system used during the e-procurement process.

16.5.8 The Bidder is required to upload documents related to his eligibility criteria and qualification information and Bill of Quantity duly filled in. It is not necessary for the part of the Bidder to up-load the drawings and the other Bid documents (after signing) while uploading his bid. It is assumed that the bidder has referred all the drawings and documents uploaded by the Officer inviting the Bid.

16.5.9 The Bidder will not be able to submit his bid after expiry of the date and time of submission of bid (server time). The date and time of bid submission shall remain unaltered even if the specified date for the submission bids declared as a holiday for the Officer Inviting the Bid.

16.6 SIGNING OF BID:

The 'Offline bidder' shall digitally sign on all statements, documents, certificates uploaded by him, owning responsibility for their correctness/authenticity as per IT ACT 2000. If any of the information furnished by the bidder is found to be false / fabricated / bogus, his EMD/Bid Security shall stand forfeited & his registration in the portal shall be blocked and the bidder is liable to be blacklisted.

17. **SECURITY OF BID SUBMISSION:**

17.1 All bid uploaded by the Bidder to the portal will be encrypted

17.2 The encrypted Bid can only be decrypted /opened by the authorized openers on or after the due date and time.

18. **RESUBMISSION AND WITHDRAWAL OF BIDS**:

18.1 Resubmission of bid by the bidders for any number of times before the final date and time of submission is allowed.

18.2 Resubmission of bid shall require uploading of all documents including price bid afresh.

18.3 If the bidder fails to submit his modified bids within the pre-defined time of receipt, the system shall consider only the last bid submitted.

18.4 The bidder should avoid submission of bid at the last moment to avoid system failure or malfunction of internet or traffic jam or power failure etc.

18.5 The Bidder can withdraw his bid before the closure date and time of receipt of the bid by uploading scanned copy of a letter addressing to the Procurement Officer Publisher (Officer Inviting Tender) citing reasons for withdrawal. The system shall not allow any withdrawal after expiry of the closure time of the bid.

19. **OPENING OF THE BID:**

19.1 Bid opening date and time is specified during tender creation or can be extended through corrigendum. Bids cannot be opened before the specified date & time.

19.2 All bid openers have to log-on to the portal to decrypt the bid submitted by the bidders.

19.3 The bidders & guest users can view the summary of opening of bids from any system. Contractors are not required to be present during the bid opening at the opening location if they so desire.

19.4 In the event of the specified date of bid opening being declared a holiday for the Officer inviting the Bid, the bids will be opened at the appointed time on the next working day.

19.5 Combined bid security for more than one work is not acceptable.

19.6 The electronically submitted bids may be permitted to be opened by the predefined Bid opening officer from their new location if they are transferred after the issue of Notice inviting Bid and before bid opening. Further, action on bid documents shall be taken by the new incumbent of the post.

19.7 In case of non-responsive tender the officer inviting tender should complete the e-Procurement process by uploading the official letter for cancelled / re-tender.

19.8 In case of any complain regarding the bid of any Bidder, should be lodged within 03(Three) days from the date of opening of the Bid ,otherwise it will not be entertained.

20. **EVALUATION OF BIDS**

20.1 All the opened bids shall be downloaded and printed for taking up evaluation. The officer authorized to open the tender shall sign and number on each page of the documents downloaded and furnish a certificate that “the documents as available in the portal containing--- - nos of pages”.

20.2 The bidder may be asked in writing / Offline (in their registered e-mail ids) to clarify on the uploaded documents provided in the Technical Bid, if necessary, with respect to any doubts or illegible documents. The Officer Inviting Tender may ask for any other document of historical nature during Technical Evaluation of the tender. Provided in all such cases, furnishing of any document in no way alters the Bidder’s price bid. Non submission of legible documents may render the bid non-responsive. The authority inviting bid may reserve the right to accept any additional document.

20.3 The bidders will respond in not more than 7 days of issue of the clarification letter, failing which the bid of the bidder will be evaluated on its own merit.

20.4 The Technical evaluation of all the bids shall be carried out as per information furnished by Bidders.

20.5 The Procurement Officer-Evaluators; will evaluate bid and finalize list of responsive bidders.

20.6 The financial bids of the technically responsive bidders shall be opened on the due date of opening. The Procurement Officer-Openers shall log on to the system in sequence and open the financial bids.

20.6.1 The Financial Bid will be opened on the notified date & time in the presence of bidders or their 14authorized representative who wish to be present.

20.6.2 At the time of opening of “Financial Bid”, bidders whose technical bids were found responsive will be opened.

20.6.3 The bidder must submit the affidavit strictly in the prescribed format as mentioned in Schedule-F. No additional matter shall be added and no word shall be removed from the prescribed format. The affidavit must be executed before the concerned Notary. If the bidder intends to make any additional claim or declaration, it shall be submitted through a separate affidavit. Otherwise, the bid shall not be considered during technical evaluation.

20.6.4 Procurement Officer-Openers shall sign on each page of the downloaded BoQ and the Comparative Statement and furnish a certificate to that respect.

20.6.5 Bidder can witness the principal activities and view the documents/summary reports for that particular work by logging on to the portal with his DSC from anywhere.

20.6.6 System provides an option to Procurement Officer Publisher for reconsidering the rejected bid with the approval of concern Chief Engineer /Head of Department.

21. **NEGOTIATION OF BIDS:**

21.1 For examination, evaluation, and comparison of bids, the officer inviting the bid may, at his discretion, ask the lowest bidder for clarification of his rates including reduction of rate on negotiation and breakdown of unit rates

22. **NOTIFICATION OF AWARD AND SIGNING OF AGREEMENT**:

22.1 The Employer/Engineer-in-Charge shall notify acceptance of the work prior to expiry of the 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 the contractor in consideration of execution & completion of the Works by the contractor as prescribed by

the contract & the amount of Performance Security and Additional Performance Security required to be furnished. The issue of the letter of Acceptance shall be treated as closure of the Bid process and commencement of the contract.

22.2 The Contractor after furnishing the required acceptable Performance Security & Additional Performance Security, "Letter to Proceed" or "Work Order" shall be issued by the Engineer-in-Charge with copy thereof to the procurement Officer – Publisher. The Procurement Officer-Publisher shall up load the summary and declare the process as complete.

22.3 If the L-1 bidder does not turn up for agreement after finalization of the tender, then he shall be debarred from participation in bidding for three years and action will be taken to blacklist the contractor. Besides the consortium / JV / firm where such an agency / firm already happens to be or is going to be a partner/member/proprietor, he/they shall neither be allowed for participation in bidding for three years nor his/their application will be considered for registration and action will be initiated to blacklist him/them. In that case, the L-2 bidder, if fulfils other required criteria, would be called for drawing agreement for execution of work subject to condition that the L-2 bidder negotiates at par with the rate quoted by the L-1 bidder, otherwise the tender will be cancelled.

23. BLOCKING OF PORTAL REGISTRATION:

23.1 If the Registration Certificate of the Contractor is cancelled /suspended by the registering authority/ blacklisted by the competent authority his portal registration shall be blocked automatically on receipt of information to that effect.

23.2 The portal registration blocked in the ground mentioned in the above Para-23.1 shall be unblocked automatically in receipt of revocation order of cancellation/suspension/ blacklisting from the concerned authority.

23.3 The Officer Inviting Tender shall make due inquiry and issue show cause notice to the concerned contractor who in turn shall furnish his reply, if any, within a fortnight from the date of issue of show cause notice. Thereafter the Officer inviting Tender is required to issue an intimation to the defaulting bidder about his unsatisfactory reply and recommend to the Chief Manager (Tech.) for blocking of portal registration within 10 days of intimation to the defaulting bidder regarding his unsatisfactory reply with intimation to the Registering Authority and concerned Chief Engineer/ Heads of Office if any of the following provisions are violated.

23.3.1 Fails to furnish original Technical / Financial (Tender Paper Cost, EMD/Bid Security) instruments before the designated officer within the stipulated date and time.

23.3.2 Backs out from the bid on any day after the last date of receipt of tender till expiry of the bid validity period.

23.3.3 Fails to execute the agreement within the stipulated date.

23 3.4 If any of the information furnished by the bidder is found to be false / fabricated /bogus.

Accordingly the Officer Inviting Tender shall recommend to the Chief Manager (Tech.) ,State Procurement Cell, Odisha for blocking of portal registration of bidder and simultaneously action shall also be initiated by OFFICER INVITING TENDER for blacklisting as per Appendix- XXXIV of OPWD Code, Volume-ll.

24. GUIDELINES FOR UNBLOCKING OF PORTAL REGISTRATION:

24.1 **UNBLOCKING OF PORTAL REGISTRATION:**

Unblocking of portal registration of a contractor shall be done by a Committee consisting of the following members.

EIC (Civil)-cum-CPO, - Chairman
Engineer-in-Chief (WR) – Member
Concerned Chief Engineer – Member
Sr. Manager (Finance), SPC – Member
Officer Inviting Tender – Member
Chief Manager (Technical), SPC- Convener

24.2 The Chief Manager (Tech), State Procurement Cell will be the convener and he will maintain all records for this purpose. The Committee shall meet not less than once in a month if required & shall consider the recommendation of the officer inviting tender for unblocking of portal registration. The quorum of the meeting will be four.

24.3 The minimum period of blocking of Portal Registration shall in no case be less than 180 days. After blocking of Portal Registration, the Contractor whose Portal Registration has been blocked may file application to the concerned officer inviting tender showing sufficient ground for unblocking of his portal registration along with a Treasury Challan showing deposit of Rs. 10,000/- (Rupees ten thousand) only (non-refundable) under the head of accounts '0059 – Public Works' as processing fees. The officer inviting tender shall forward the application filed by the contractor to the Chief Manager (Tech), State Procurement Cell.

24.4 On receipt of recommendation from the concerned Chief Engineer along with the copy of challan as mentioned above, the Chief Manager (Tech) being the member Convener of the Committee shall place the case before the Committee for examination and taking a decision in this regard. After examination the Committee may recommend for unblocking of the portal registration of said contractor if the Committee is satisfied that the fault committed by the contractor is either unintentional or done for the first time.

24.5 After scrutiny by the State Procurement Cell if it is found that the portal registration of a contractor has been blocked for the 2nd time the Chief Manager (Tech), SPC may not consider his case to be placed before the Committee and may advice the concerned officer inviting tender to issue show cause notice to the contractor asking him to explain as to why his portal registration shall not remain blocked. On receipt of show cause reply from the contractor the officer inviting tender shall examine the same & if considered proper he may report to the Chief Manager (Tech), SPC along with his views furnishing the copy of the show cause reply for placement of the same before the committee for taking a decision in respect of blocking/ unblocking. If the Committee found that the contractor is in habit of committing such fault again and again intentionally the committee may advice the concerned officer inviting tender to initiate proceeding for blacklisting as per the existing rule.

Accordingly Office Memorandum No 1027 Dt.24.01.2009 stands modified.

DETAILED TENDER CALL NOTICE
FOR BUILDING WORKS

e-Procurement Notice

Bid Identification No. ITDAMKG-8/2026-27

2. The **Project Administrator, ITDA, Malkangiri** on behalf of Governor of Odisha invites **Percentage Rate bids** through **Offline mode in Double Cover System** for the works as detailed in the table, from the class of eligible contractors as mentioned in column-6 (six) registered with the State Government and Contractors of equivalent Grade / Class Registered with Central Government / MES / Railways for execution of Civil Works. The bidders should have the necessary Portal Enrolment (with his own Digital Signature Certificate). The registered bidders outside Odisha, can also participate in this process, after necessary Portal enrolment, but shall have to subsequently undergo registration with the appropriate authority of the State Government before award of the work. The bid should be submitted only Offline on the website **www.tendersodisha.gov.in.**

Sl No	Name of the Work	Block	Approximate Amount put to tender (In Rs.)	Period of Compl-etion	Class of Contractor	Bid Security (EMD)	Cost of bid document (In Rs.)	Last date & time of Offline receipt of bids
1	2	3	4	5	6	7	8	9
1	Construction of 120 seated ST Girls Hostel at Govt. SSD High School, Chitrakonda	Chitrakonda	**3,42,18,983/-**	11 Months	**'A' Class**	**3,42,200/- (Offline)**	**10,000/- (Offline)**	**Dtd 31.10.2026 Up to 5.30 P.M**
2	Construction of 120 seated ST Boys Hostel at Basanti High School, MV-26, Mariwada	Korukonda	**3,34,66,191/-**	11 Months	**'A' Class**	**3,34,700/- (Offline)**	**10,000/- (Offline)**	
3	Construction of 120 seated ST Boys Hostel at Govt. High School, Puspally, Khairput	Khairput	**3,44,04,980/-**	11 Months	**'A' Class**	**3,44,100/- (Offline)**	**10,000/- (Offline)**	

2. Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms & Conditions of contract and other necessary Documents can be seen in the website **www.tendersodisha.gov.in**

3. Bids must be accompanied by Earnest Money Deposit/ Bid security of the amount specified for the work in the **col. 7** of table above, pledged in favour of **PA, ITDA, Malkangiri** and will have to be in any one of the forms as specified in the bidding documents. Bidders desirous to hire machineries or equipments from outside the State or owned but deployed outside the state are required to furnish 2% of the amount put to tender as Bid security. .

4. **Exemption of EMD-** Engineer Contractor" desirous to avail the facility of exemption of E.M.D should abide by the norms as contained in No. FA-Codes-6/2011-600/W dtd. 18.01.2011 as furnished in DTCN & is required to submit an affidavit to the effect that he has not yet availed the facility / (Excluding this work) during the current financial year. The name of work for which participated and the authority to whom the tender was submitted must be mentioned in the affidavit, failing which the tender will be rejected. Also he should submit the original engineering license at the time of opening of tender for recording of exemption of EMD with due verification of previous exemption, availed if any. **Affidavit must clearly mention that facility of exemption of EMD has availed for how many works out of three works in the current financial year, failing which the bid shall be rejected.**

6. Now, the successful bidder has to deposit 1% of EMD of the bid amount at the time of execution of Agreement in pursuant to O.M.No. 5992/W Dated 27.04.2021 in shape of **N.S.C./ Post Office Savings Bank Account/ Post Office Time Deposit Account/ Kisan Vikas Patra./ Bank Guarantee in favour of the PA, ITDA, Malkangiri from any Nationalized Scheduled Bank in India counter guaranteed by its local Branch at Malkangiri** pledged in favour of the PA, ITDA, Malkangiri

7. The Bid documents will be available in the website **www.tendersodisha.gov.in from 3.00 P.M of 16.10.2026 to 5.30 P.M of 31.10.2026 for online bidding.**

8. The Bidder must possess **Compatible Digital Signature Certificate (DSC) of Class II or Class III.**

9. Bids shall be received only "**On-line**" on or before **5.30 P.M of 31.10.2026**

10. Bids received "**on-line**" shall be **opened at 11.00 A.M on 05.11.2026** in the office of the PA, ITDA, Malkangiri, Odisha in presence of bidders who wish to attend. Bidders who participated in the bid can witness the opening of bids after logging on to the site through their DSC. If the office happens to be closed on the stipulated date of opening of Bids as specified, the bids will be opened on the next working day at the same time and venue.

11. Original Bid Security (EMD) & Demand draft towards cost of bid document & affidavits shall be submitted in the office of the undersigned from **of 10.00 A.M of 02.11.2026 to 04.11.2026 Up to 5.30 P.M** during office hours on working days directly through **tender box kept at ITDA office / Registered Post** within the schedule time mentioned above, failing which the bid will be rejected. and **if any bidder participated on the online bidding process and has not withdrawn before closing date and fails to deposit cost of bid as above will be liable for action as per clause No. -2 of e-procurement portal.**

12. The cost of bid document ***(offline)*** has to be paid by each bidder as mentioned under ***Column 08*** in shape of Demand Draft drawn in favour of **PA, ITDA, Malkangiri** from any nationalized scheduled bank (mentioned in **column 8** of above table) payable at **Malkangiri** towards cost of bid.

13. ***The Bidder shall furnish, as part of his Bid, a Bid security (offline) for each work separately as per the amount mentioned under Col. 7 of NIT/Contract Data. The bidder shall scan all the written pages of the bid security and up load the same to the system in designated place. The online bidder shall deposit the original copy of the 'bid security' within the specified period mentioned in the DTCN (after receipt date of bid but before opening date & time of bid) with the "Officer inviting the Bid". The Officer inviting the bid shall not be responsible for any postal delay and/or non- receipt of the original copy of the bid security on or before specified date and time.*** **The bid Security (EMD) in shape of N.S.C./ Post Office Savings Bank Account/ Post Office Time Deposit Account/ Kisan Vikas Patra./ Bank Guarantee in favour of the PA, ITDA, Malkangiri from any Nationalized Scheduled Bank in India counter guaranteed by its local Branch at Malkangiri / e-Bank Guarantee executed on the National e- Governance Services Limited (NeSL) Digital Document Execution Portal/ Insurance Seurity Bond issued by Insurance company authorised by the insurance Regulatory and Development Authority of India (IRDAI) towards E.M.D/initial Security Deposit/ any other security deposit from the bidder."** **Except the above mentioned form of deposit other mode of transaction will not be entertained.**

14. ***Govt. of Odisha, Works Department has been pleased to fix the Additional Performance Security vide office memorandum no-07764600022025/173, Dt.03.01.2026. Additional performance security shall be obtained from the bidder when the bid amount is (i)Where the bid price is below 0% but not below 10% of the project cost put to bid, no additional performance guarantee/ security percentage is required. (ii) Where the bid price is below 10% but not below 20% of the project cost put to bid, the additional performance guarantee/ security percentage shall be incremented by 0.1% for every percentage of bid price below 10% of the project cost put to bid starting at 11% with the additional bid performance guarantee being 0.1% and this additional performance guarantee percentage shall be applied on the bid price. (iii) Where the bid price is 20% or more below of the project cost put to bid, the additional performance guarantee percentage shall be incremented by 0.2% for every percentage of bid price below 20% of the project cost put to bid in addition to 1% of the bid price and this additional performance guarantee percentage shall be applied on the bid price. (iv) The additional performance guarantee percentage shall be rounded off to the next lower percentage based on whether the decimal point of the percentage of bid price is below 0.5% or next higher percentage based on whether the decimal point of the percentage of bid price is 0.5% or more. (v)The additional performance security shall be treated as part of the performance security. (Vi)Justification for abnormally as low bids shall be scrutinized by the Department Technical Committee and recommended to the competent authority of the Administrative Department for the approval of the Additional Performance Security (APS). An abnormally low bid is one in which the Bid price, in combination with other elements of the bid, appears so low that it raises material concerns as to the capability of the Bidder to perform the contract at the offered price. Procuring Entity may, in such cases, seek written clarifications from the Bidder, including detailed price analyses of its Bid price in relation to scope, schedule, resource mobilization, allocation of risks and responsibilities and any other requirements of the bid documents. If, after evaluating the price analyses, the procuring entity determines that the Bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, the Procuring Entity may reject the Bid/ Proposal. However, it would not be advisable to fix a normative percentage below the estimated cost, which would automatically be considered as an abnormally low bid.***

15. The Amount put to tender is exclusive of GST. The intending Bidders should offer their rates which shall be exclusive of GST applicable as per norms. GST as applicable on works contract shall be paid over the bill amount at the time of payment of Bill.

16. The contractor has to upload an Affidavit regarding correctness of all the document uploaded in the website and also required to submit all relevant documents to the procurement officer such as Original affidavits for authentication, SC/ST price preference / Exemption of EMD as per DTCN.

17. Authority will not be held responsible for system failure, malfunction of internet or traffic jam. Bidders are advised to submit their bids well in advance within the stipulated period. Delay in receipt of offline documents beyond scheduled period will not be entertained.

18. In the event of the specified date of bid opening being declared a holiday/ or any technical error, the bids will be opened at the appointed time on the next working day.

19. The companies or individuals registered with State Government and contractors of equivalent Grade / class registered with Central Government / MES / Railways having registration for Civil, Electrical and P.H. works, if any having both legal competency and expertise in Civil, Public Health and Electrical Engineering works need put tenders for this composite work and the documentary evidence under appropriate Act in support of their legal competency and expertise to execute Civil, Electrical and P.H. work if any invariably should accompany their tender papers.

20. **To avail the 50% exemption of EMD and Price Preference :** The intending SC/ST tenderer (s) upto 'B' Class should upload the scan copy of the caste certificate for exemption of 50% EMD & also upload the copy of application for availing price preference. The attested copy of the certificate and the said application must be submitted to the PA, ITDA during original verification of bid documents.

21 **The documents to be contained**

OFFLINE DOCUMENTS

Documents to be submitted in a separate cover

2) *Original Bid Security(EMD) (offline)* in shape of KVP,BG, Postal NSC, Post Office One Time Deposit, *2) Paper Cost in shape of Demand Draft (offline),* 3) Affidavits 4) Bid Acknowledgement Copy
(*On the body of the cover super scribed the Name of Tender Work with Project Sl. No & Name of the bidder.*)

ONLINE DOCUMENTS

All Documents consisting of : - Paper Cost, EMD, Affidavits, Contractor Registration Certificate, PAN Card, *Income Tax Returns[(Assessment Year 2026-27)* GST Registration Certificate, Up to date GSTR 3B Return *2026-27 (For Quarterly return filers July 26 to September 2026 and for Monthly return filers August 2026 to be taken*, Similar nature of work. , Memorandum of Understanding with Electrical Contractor for execution of composite work, Registration Certificate, No relation Certificate in plain form, EPFO & ESIC Registration Certificate, No Litigation, Caste Certificate & other requisite documents to be submitted as per DTCN any short fails liable for rejection.

In a double cover system the Technical bid (Offline) will be opened first & after Technical evaluation by the Tender Committee. Original verification of bidders who qualify on the basis of scanned copy submitted Offline shall be carried out and then the Financial bid in Offline mode will be opened only of successful bidders.

21. Other details can be seen in the bid documents. Subsequent Corrigendum (if any) can be only seen in the web site **www.tendersodisha.gov.in**
22. As all works are time bound and critical in nature no extension of time ordinarily will be allowed in the interest of education of Tribal students.
23. DTCN is not to be uploaded by the bidder. The bidder has to only agree / disagree on the conditions in the DTCN. The bidders who disagree on the conditions of DTCN, cannot participate in the tender.
24. **The committee reserves the right to reject the Bids of low performing and habitually slow contractors in ITDA works**.
25. The undersigned authority reserves the right to cancel any or all bids without assigning any reason thereof. Further details can be seen from the website **www.tendersodisha.gov.in**
26. Scanned copy of affidavits in original must be submitted separately for each work Offline and during original verification. Scanned copy of photo copy of affidavits shall not be accepted for technical evaluation and in such case the bid shall be rejected.
27. In case of doubts regarding any provision of DTCN, office of the PA, ITDA, Malkangiri may be contacted only through e-mail ID **– itdamkn@od.gov.in**
28. In case of any complain regarding the bid of any bidder, it should be lodged within 03 (three) days from the date of opening of the Bid, otherwise it will not be entertained.
29. The bidder should read carefully the details terms and condition and abide by the conditions mentioned in the DTCN. He/ she cannot claim for any short fall of document therein lies in the DTCN, if failed to qualify technically in the Tender.
30. **SIGNING OF BID: The 'Offline bidder' shall digitally sign on all statements, documents, certificates uploaded by him, owning responsibility for their correctness/authenticity as per IT ACT 2000. If any of the information furnished by the bidder is found to be false / fabricated / bogus, his EMD/Bid Security shall stand forfeited & his registration in the portal shall be blocked and the bidder is liable to be blacklisted as per Office Memorandum No. 7885/W Dated 23.07.2013 of Works Department, Odisha.**
31. **ST& SC bidders claiming EMD exemption and price preference must mention such claim in affidavit, failing which their bid shall be treated as General category bid.**
32. **Price preference to ST & SC bidders shall be available against L1 bidder of any category as per OPWD Code.**
33. **If any prospective bidder does not agree with the terms and conditions set forth in this DTCN must not apply his / her bid. Bidders who have applied shall be considered to have agreed with the terms and conditions of this DTCN.**
34. The bidder should have satisfactorily completed similar nature of work costing not less than 75% of the tender value of the project during the last five financial years including the current/base year. The required experience may be derived from one single work or from two or three similar works executed during the above period, the combined value of which shall not be less than 75% of the tender value. Similar nature of work means construction of new building works only executed for any authority/body of the State Government or Central Government. The experience certificate must be submitted by the bidder and shall be issued by the concerned officer of the State/Central Government not below the rank of Executive Engineer or an equivalent officer.

35 Condition/ provisions which has been mentioned in this DTCN explicitly shall be followed and if any condition / provision is not mentioned explicitly in this DTCN, then provisions of OPWD code shall prevail.

36. **The checklist is only illustrative in nature; however, the DTCN shall be treated as the main and governing documents.**
37. The amendment of codal & contractual provisions issued vide O.M No. 17941/W Dated 08.10.2026 shall be followed as per norms of the Govt. in Works Department, Odisha, Bhubaneswar.
38. The authority reserves right to cancel any or all bids without assigning any reason thereof...

"No reference to any documents of ownership and hiring of plants and machineries submitted in any previous tender case will be entertained"

38.1 The work is to be completed in all respects within **11 (Eleven)** calendar months from the date of issue of work order. Bidders whose bid is accepted must submit a work programme

38.2 All tenders received will remain valid for a period of 180 days from the last date prescribed for receipt of tenders and validity of tenders can also be extended if agreed by the tenderers and the Department.

39. An applicant or any of its constituent partners of whose contract for any work has been rescinded or who has abandoned any work in the last five years, prior to the date of the bid, shall be debarred from qualification. The bidder is to furnish an **affidavit** at the time of submission of bid about the authentication of bid documents. An **affidavit** to this effect is to be furnished in **Schedule-F. Non furnishing of the scanned copy of information in Schedule – E and Schedule – F , the bid document will be summararily rejected.**

40. **No Relation certificate.**
The contractor shall furnish a certificate in plain paper along with the tender to the effect that he is not related to any officer in the rank of Junior Engineer & above in the office of the PA, ITDA, Malkangiri or Assistant/Under Secretary & above in the ST & SC Dev. Department. If the fact subsequently proved to be false, the contract is liable to be rescinded. The earnest money & the total security will be forfeited & he shall be liable to make good the loss or damages resulting for such cancellations. The proforma for no relationship certificate is contained in a separate sheet vide **Schedule-A.**

41. If an individuals makes the application, the individual should sign above his full type written name and current address.

42 The notice inviting bid, instruction to the bidder, conditions of contract, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance thereof together with any correspondence leading thereof & required amount of performance security including additional performance security. tolls conveyance charge and other cost on account of land and building including temporary building and temporary electric connection to work site as well as construction of service road and diversion road and its maintenance 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 to pay Govt. for temporary occupation of land owned by Govt. at the site of the work.

43. If the application is made by proprietary firm, it shall be signed by the proprietor above his full type written name and the full name of his firm with its current address.

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

45. If the application is made by a limited company or a corporation, it shall be signed by duly authorized person holding power of attorney for signing the application in which case a certified copy of the power of attorney shall accompany the application. Such limited company or corporation will be required to furnish satisfactory evidence of its existence along with the technical bid.

46. The tender should be strictly in accordance with the provisions as mentioned in the tender schedule. Any change in the wordings will not be accepted.

47. No bidder will be permitted to furnish their bid in their own manuscript papers. All information should be submitted in English. The applicants name should appear on each page of the application along with his signature or the signature of his authorized representative at the bottom of each page.

a) Submission of more than one tender by a bidder for a particular work will liable for rejection of all such tender papers.

48. **A. Percentage rate contract (vide Works Department letter no.8310 dt.17.05.2006) In case of Percentage Rate tender:-**

(i) The contractor has to quote percentage excess or less over the estimated cost in the prescribed format appended to the tender document. The estimated cost is excluding GST. The rates of item basing on which estimated cost has been derived are excluding GST on different components to arrive at such rates.

In the Percentage Rate Tender the Bidder quoting Zero value is valid and will be taken as Schedule of Rates.

(ii) The Contractors participated in the tender for more than one work may offer conditional rebate. Rebate offer submitted in a separate letter duly scanned shall be opened, declared and recorded first. The rebate so offer shall be considered after opening of all packages called in the same Tender Notice. The Contractors who wish to tender for two or more works shall submit separate tender for each. Each tender shall have the Bid Identification No, Name & Sl No. of the work (as per I.F.B) to which they refer.

(iii) The Contractor will quote percentage excess/less up to Two decimal point only. If he writes the percentage excess/less up to three or more decimal points, the second decimal point shall only be considered without rounding off (vide Works Department O.M No- 7885 dtd. 23.07.2013.)

(iv) In the contract P-1 time is the essence. The contractor is required to maintain a certain rate of progress specified in the contract.

(v) The quantity mentioned can be increased or reduced to the extent of 10% for individual items subject to a maximum of 5% over the estimated cost. If it exceeds the limit stated above prior approval of competent authority is mandatory before making any payment.

(vi) The period of completion is fixed and can not be altered except in case of exceptional circumstances with due approval of next higher authority.

(vii) Bills for percentage rate tenders shall be prepared at the estimated rates for individual items only and the percentage excess or less shall be added or subtracted from the gross amount of the bill

B. GST as applicable on works contract shall be paid over the bill amount at the time of payment of bill.

The TDS provision under the GST Act (i.e. Section 51 of OGST Act and Section 51 of CGST Act) has come into effect with effect from 1.10.2018 as per GoI Ministry of Finance, Deptt of Revenue Circular No.65/39/2018- DOR Dt14.09.2018. Therefore, TDS deduction is to be made under GST Acts against payments released or to be released to the executants on or after 01.10.18 @ 2.00 % (1% for CGST and 1% for SGST)

49. (i) The bidder shall carefully study the tentative drawings and specifications applicable to the contract and all the documents which will form a part of the agreement to be entered in to by the accepted bidder and detailed specifications for Odisha and other relevant specifications and drawings which are for sale. Complaint at a future date that plans and specifications have not been seen by the bidders can not be entertained.

50 (ii) Every bidder is expected before quoting his rate to inspect the site of the proposed work. The bidder should also inspect the quarries and approach roads to quarries and satisfy himself/themselves about the quality and availability of materials. In every case the materials must comply with the relevant specifications. Complaints at future date that the availability of materials at quarries has been misjudged can not be entertained.

51 **Amendment to pare-3.4.16 (a) (vii) of OPWD Code, Vol-I by Substitution**

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 materials supplied. The contractors would, however be responsible for procurement for materials from authorized sources and voluntarily disclose the source of procurement for the purpose of billing Besides, the bidder would be required to submit the details of quarry for procurement while submitting the bids.

52. The drawings if any furnished with the bid are tentative and subject to revision or modification as tendered during the execution as per actual necessity and detail test conducted. But the tendered rate quoted by the bidder will hold good in case of such modification of drawings during the time of execution and shall in no way invalidate the contract and no extra monetary compensation will be entertained. The work shall however be executed as per final approved drawing to be issued by the Engineer-in-Charge as and when required.

53. If any advance / Secured advance is granted by the Department the same will bear interest at the rate of 18% P.A.

54. The contractor shall properly co-ordinate with the execution of P.H. and Electrical works and take care of the safety of workers.

55. It must be definitely understood that the Government does not accept any responsibility for the correctness and completeness of the trial borings.

56. Additional performance Security:

57(i) Amendment to Appendix –IX, Clause -36 of OPWD Code, Vol-II by Inclusion

(DELETED) If the rate quoted by the bidder is less than 15% of the tendered amount then such a bid shall be rejected and the tendered shall be finalized basing on merits of rest bids. But if more than one bids is quoted at 14.99% (Decimals up to two numbers will be taken for all practical purpose) less than estimated cost, the tender accepting authority will finalize the tender through a transparent lottery system where all bidders/their authorized representatives the concerned Executive Engineer and DAO will remain present.

57(ii) Amendment to Appendix –IX, Clause -36 of OPWD Code, Vol-II by Inclusion (DELETED)

If the rate quoted by the SC and ST Category contractor comes to 14.99%(decimals up to two numbers will be taken for all practical purposes) less than the estimated cost after availing 10% price preference as per para -2of Works Department Resolution No 16262 dtd 30.10.2018,then the tender shall be finalized by the tender accepting

authority through a transparent lottery system along with other category contractors whose rates are 14.99% less than the estimated cost as per Works Department Memorandum No 10224 dtd 01.09.2015.

57(iii) ***Govt. of Odisha, Works Department has been pleased to fix the Additional Performance Security vide office memorandum no-07764600022025/173, Dt.03.01.2026. Additional performance security shall be obtained from the bidder when the bid amount is (i)Where the bid price is below 0% but not below 10% of the project cost put to bid, no additional performance guarantee/ security percentage is required. (ii) Where the bid price is below 10% but not below 20% of the project cost put to bid, the additional performance guarantee/ security percentage shall be incremented by 0.1% for every percentage of bid price below 10% of the project cost put to bid starting at 11% with the additional bid performance guarantee being 0.1% and this additional performance guarantee percentage shall be applied on the bid price. (iii) Where the bid price is 20% or more below of the project cost put to bid, the additional performance guarantee percentage shall be incremented by 0.2% for every percentage of bid price below 20% of the project cost put to bid in addition to 1% of the bid price and this additional performance guarantee percentage shall be applied on the bid price. (iv) The additional performance guarantee percentage shall be rounded off to the next lower percentage based on whether the decimal point of the percentage of bid price is below 0.5% or next higher percentage based on whether the decimal point of the percentage of bid price is 0.5% or more. (v)The additional performance security shall be treated as part of the performance security. (Vi)Justification for abnormally as low bids shall be scrutinized by the Department Technical Committee and recommended to the competent authority of the Administrative Department for the approval of the Additional Performance Security (APS). An abnormally low bid is one in which the Bid price, in combination with other elements of the bid, appears so low that it raises material concerns as to the capability of the Bidder to perform the contract at the offered price. Procuring Entity may, in such cases, seek written clarifications from the Bidder, including detailed price analyses of its Bid price in relation to scope, schedule, resource mobilization, allocation of risks and responsibilities and any other requirements of the bid documents. If, after evaluating the price analyses, the procuring entity determines that the Bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, the Procuring Entity may reject the Bid/ Proposal. However, it would not be advisable to fix a normative percentage below the estimated cost, which would automatically be considered as an abnormally low bid.***

57(iv) **Grant of concessions to sc /st contractors**

Grant should be permitted to SC/ST contractors according to the Works Department Resolution number 16262 Dtd. 30.10.2018. Any tenderer desirous to avail any facility as per certain circular/Order of Govt. have to apply for the same in writing in affidavit along with the Tender paper. Claim at the time of opening of tender or later will not be entertained.

57.(v) **Office Memorandum of Finance Department vide letter no- 4559 dtd 05.04.2021 may be referred regarding submission of Additional Performance Security.**

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

58. (i) The contract will be drawn in P.W.D. **P-1** contract form and will constitute 3 parts as follows as the case may be.

a) Part – I : For Civil items of works

b) Part – II : For Electrical. Items of works

c) Part – III : For P.H items of work

The contract shall be drawn & signed by **Project Administrator, ITDA, Malkangiri** on behalf of the Governor of Odisha.

(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 of works (both internal & external) as per Part-III of the Scheduled of quantities of the Agreement shall be supervised measured and check measured by the **Asst. Executive Engineer, ITDA, Malkangiri** respectively.

In the interest of expeditious execution of work, payment of interim bills (Running A/c bills) shall be made in respect of Public Health works nil final bill shall be sent to the concerned for final adjustment and compilation of accounts. Jr. Engineer concerned shall be responsible for proper and timely execution of their respective items of works and implementation of the terms and condition of the contract. The contractor shall be bound to receive and act as well according to the direction of the Engineer-in-Charge for General Public Health Authority concerned.

59. In case of any discrepancy in printing or omissions of statutory specifications or any other part or portion of the approved document during download of the bid document, the decision of the officer inviting the bid will be binding on the bidder.

60. The tender containing extraneous conditions not covered by the tender notice are liable for rejection and quotations should be strictly in accordance with the tender call notice. Any change in the wording will not be accepted.

61. i) Schedule of quantities are accompanied in Cover-II (Price Bid). It shall be definitely understood that the Government does not accept any responsibility for the correctness or completeness of this schedule and that this schedule is liable for alternation or omissions, deductions or alternations set forth in the conditions of the Contract and such omissions, deductions, additions or alternations shall no way invalidate the contract and no extra monetary compensation, will be entertained.

ii) **Bidders are to submit only the Original Bill of Quantity uploaded by publisher after entering the relevant fields without any alteration / deletion / modification. Multiple Bill of Quantity submission shall lead to cancellation of Bid.**

iii) The quantity mentioned can be increased or decreased to the extent of 10% for individual items subject to a maximum of 5% over the estimated cost. If it exceeds the limit stated above, prior approval of competent authority is mandatory before making any payment.

62. The authority reserves the right to reject any or all the tenders received without assigning any reasons there-of what so ever.

63. The bid security (earnest money) will be retained and dealt with as per the terms and conditions of the OPWD Code.

64. i) The bidder/tenderer whose bid has been accepted will be notified of the award by the Engineer-in- charge prior to expiration of the validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the conditions of 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 and maintenance of the Works by the contractor as prescribed by the contract (Hereinafter and in the contract called the “Contract Price”).

ii) The Notification of award will constitute the formation of the contract, subject only to the furnishing of a performance security (Initial Security Deposit) and additional performance security as per clause 27 of DTCN in form of Kissan Vikash Patra / Post Office Savings Bank Account/National Savings Certificate / Post Office Time Deposit Account in India counter guaranteed by its local branch at Malkangiri duly pledged in favour of the **Project Administrator, ITDA, Malkangiri** and in no other form, which including the amount already deposited as bid security (earnest money) shall be 1% of the value of the tendered amount and sign the agreement in the P.W.D. form No. **P-1 (Schedule XLV No. 61)** for the fulfillment of the contract in the office of the **Project Administrator, ITDA, Malkangiri and payable at Malkangiri or** as directed. The security deposit together with the earnest money and the amount withheld according to the provision of **P-1** agreement shall be retained as security for the due fulfillment of this contract and additional performance security in accordance with the provisions of the agreement.

iii) The agreement will incorporate all correspondence between the officer inviting the bid/Engineer-in-Charge and the successful bidder. Within 15 days following the notification of award along with the Letter of Acceptance, the successful bidder will sign the agreement and deliver it to the Engineer-in-Charge. Following documents shall form part of the agreement.

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

iv) Failure to enter in to the required agreement and to make the security deposit as above shall entail forfeiture of the Bid Security (earnest money) .No contract (tender) shall be finally accepted until the required amount of initial security deposit and 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 payment of the final bill and will not carry any interest.

v) As concurred by Law Department & Finance Department In their U.O.R. No 848 dtd.21.05.97 J.O.R.No.202 W.F.D. dtd.06.03.98 respectively the E.M.D. will be forfeited in case, where bidders/tenderers back out from the offer before acceptance of tender by the competent authority.

vi) Before acceptance of tender, the successful bidder will be required to submit a work programme and mile stone basing on the financial achievement so as to complete the work within the stipulated time and in case of failure on the part of the agency to achieve the milestone liquidated damage will be imposed.

65. That for the purpose of jurisdiction in the event of disputes if any of the contract would be deemed to have been entered in to within the State of Odisha and it is agreed that neither party to the contract will be competent to bring a suit in regard to the matter by this contract at any place outside the State of Odisha.

66. 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.27.09.61 as amended from time to time.

67. In case of any complaint by the labour working about the non payment or less payment of his wages as per latest minimum Wages Act, the Asst. Executive Engineer will have the right to investigate and if the contractor is found to be in default, he may recover such amount due from the contractor and pay such amount to the labour directly under intimation to the local labour office of the Govt. The contractor shall not employ child labour. The decision of the Asst. Executive Engineer is final and binding on the contractor.

68. The contractor shall bear cost of various incidentals, sundries and contingencies necessitated by work in full within the following or similar category.

a. Rent, royalties and other charges of materials, octroi duty, all other taxes including sales tax, ferry,

b. Labour camps or huts necessary to a suitable scale including conservancy and sanitary arrangements therein to the satisfaction of the local health authorities.

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

d. Fees and duties levied by the municipal, canal or water supply authorities.

e. Suitable equipments and wearing apparatus for the labour engaged in risky operations.

f. Suitable fencing barriers, signals including paraffin and electric signal where necessary at works and approaches in order to protect the public and employees from accidents.

g. Compensation including the cost of any suit for injury to persons or property due to neglect of any major precaution also become payable due to operation of the workmen compensation act.

h. The contractor has to arrange adequate lighting arrangement for the work where ever necessary at his own cost.

69. After the work is finalized, all surplus materials should be removed from the site of work. Preliminary work such as vats, mixing platforms etc. should be dismantled and all materials removed from the site and premises left neat and clean, this should be inclusive of the rate.

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

71. It should be understood clearly that no claim what-so-ever will be entertained to extra items of works, extra quantity of any item besides agreement quantity unless written order is obtained from the Engineer-in-charge and rate settled before the extra items of work or extra quantity of any items of work is taken up.

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

73. Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms and conditions of contract and other necessary documents can be seen in the office of the Project Administrator, ITDA, Malkangiri as as mentioned in the contract data during office hours everyday except on Sundays and Public Holidays till last date of sale and receipt of bid documents. Interested bidders may obtain further information at the same address. But it must be clearly understood that the bids must be received in order and according to the instructions.

74. Bidders are required to go through each clause of P.W.D. Form P-1 carefully in addition to the clause mentioned herein before tendering. In case of ambiguity, the clauses of P.W.D Form P-1 with latest amendments shall supersede the condition of D.T.C.N.

75. All reinforced cement concrete work should conform to IRC Code and Bridge Code section I, II, III, IV and VII & latest design criteria for prestressed concrete bridges specifically for road and bridges issued by MORT&H, Govt. of India. MORT&H Specification for Road & Bridge work (Latest Revision) shall be the guiding book for execution, quality assurance, specification and measurement for all items of Road & Bridge works.

76. Shuttering & centering shall be used which shall be lined with suitable sheeting and made leak proof and water tight.

77. The Department will have the right to inspect the scaffolding, centering and shuttering made for the work and can reject partly or fully such structures if found defective in their opinion.

78. Concrete should be machine mixed unless otherwise ordered in writing by the Asst. Executive Engineer. The contractor should arrange his own concrete mixer, vibrator, and pumps etc, for this purpose at his own cost.

79. Cement shall be used by bags and weight of one bag of Cement should be 50 (fifty) Kg. net & the Engineer-in-Charge or his representative shall have the right to test the weight & quality from time to time.

80. The bidder should arrange the materials like Steel, Cement, paint and bitumen etc. of approved quality and specification at his own cost for completion of the work with the time schedule. No extension of time will be granted on the application of the bidder due to delay in procurement of materials.

81. The bidder will be responsible for the loss or damage of any departmental materials during transit and in the execution of the work due to reasons what – so-ever and the cost of such materials will be recovered from the bills at stock issue rates or market rates whichever is higher.

82. If the bidder removes Government materials supplied to him from the site of work with a view to dispose of the same dishonestly, he shall be in addition to any other liability civil or criminal arising out of his contract be liable to pay a penalty equivalent to five times of the price of the materials according to the stock issue rate or market rate whichever is higher. The penalty so imposed shall be recovered at any time from any sum that may then or at any time thereafter become due to the bidder or from his security deposit or from the proceeds of sale thereof.

83. The selected bidder may take delivery of departmental supply according to his need for the work issued by the Sub-Divisional office in-charge subject to the availability of the materials. The bidder shall make all arrangement for proper storages of materials but no cost 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 the contractor's risk. Under any such plea if the bidder stops the work, he shall have to pay the full penalty as per clause of P-1 agreement.

84. The bidder must submit an undertaking regarding possession of valid BOCW Registration and Labour Licence at the time of submission of the tender. Bids not accompanied by such undertaking shall not be considered during technical evaluation.

85. All the materials which are to be supplied from P. W. D. store will be as per availability of stock 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 and Joists etc. After issue from the P. W. D. store the materials may be under the custody of the contractor and the contractor will be responsible for its safety and storage.

86. Though Departmental issue of cement and steel has indicated, it may not be taken as binding. The contractor must have to arrange by themselves cement, steel, and every sort of materials from approved manufacturer, get it tested in the Departmental Laboratory and approved by the Department before use.

87. TOR rods, plates and structural members will be supplied in quantity, length and size available in the stock. For payment of reinforcement, the steel including plates etc. shall be 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 weight calculated as per sectional weight prescribed by the Indian Standard Specification or as directed by the Engineer-in-Charge.

88. The bidder shall submit an affidavit in original, duly notarized, along with the bid documents declaring that he/she has not been convicted by any Court of Law nor sentenced to imprisonment for any offence involving moral turpitude as on the date of submission of the bid. Failure to furnish such affidavit, or submission of any false declaration, shall result in the bid not being considered during Technical Evaluation, in accordance with the provisions of the Odisha General Financial Rules (OGFR) and other applicable Government guidelines.

89. The contractor should at his own cost arrange necessary tools and plants required for the efficient execution of work and the rates quoted should be inclusive of the running charges of each plant and cost of conveyance.

90. Measurement of earth work in embankment will be done by section measurement after the earth is consolidated including rolling with hand or power road roller and sheep foot roller at optimum moisture condition and no extra payment will be made for the jungle clearance for taking earth from the borrow areas. Earth work from cutting shall be economically utilized in filling.

91. All reinforced cement work should conform to Odisha Detailed specification and should be of proportion as per Contract Agreement having desired compressive strength (in work test) in 15 Cm cubes at 28days, after mixing and test conducted in accordance with IS 456 and IS 516 .

92. In the event of any delay in the supply of Departmental machineries for unavoidable reasons, no extension of time will be granted to the contractor under any circumstances.

93. **Gradation of Ingredients:** The coarse and fine aggregate shall meet the grade requirement as per the latest provision of relevant I.S Code / I.R.C Code / MoRT&H specifications.

94. The Contractor will have to submit to the **PA, ITDA, Malkangiri** monthly return of labour both skilled and unskilled employed by him on the work.

95. All fittings for doors and windows, PH and Electrical Works as supplied by the Contractor should be of best quality and conform to relevant I.S. specification and should be got approved by the Engineer-in-charge before they are used on the work.

96. The bidder must submit an affidavit duly sworn before a Notary Public or Executive Magistrate confirming that he/she/they have not been blacklisted, debarred, suspended, or otherwise prohibited from participating in any tender or procurement process by any Central Government, State Government, Public Sector Undertaking (PSU), Autonomous Body, Statutory Authority, or any Government-controlled organization as on the last date of submission of the bid. In the absence of such affidavit, or if the declaration is found to be false at any stage, the bid shall not be considered in technical evaluation and further action as deemed appropriate by the competent authority may be initiated.

97. The depth of foundation indicated on the drawing are provisional but these may be altered if necessary in the light of the nature of strata indicated by boring which must be taken in advance of actual execution of the foundation.

98. The contractor has to arrange the samples of materials required for execution to be got tested and approved by the Department before taking up the work and during course of execution required from time to time. All such samples will be tested at ***Departmental Control and Research Laboratory Bhubaneswar, Quality control division Cuttack and Zonal Laboratories***, at the cost of the Contractor with no extra cost to the Department.

99. The cement concrete block should be well burnt and of good qualities. The bricks should be approved by the Engineer-in-charge before use in the work and should conform to the minimum strength as per National Building Code.

100. Standard co-efficient for linear measurement will be adopted while calculating consumption of steel and no claim whatsoever regarding difference in co-efficient of steel will be entertained. The rates quoted shall be inclusive of any eventuality of difference for co-efficient for linear measurements.

101. SPECIAL CONDITIONS (PART OF THE CONTRACT)

(I) All materials before they are being used in the items of works as per this Schedule of quantities and also the finished items of work where tests are applicable shall have to be tested through the Engineer-in-charge of the respective wing at appropriate Laboratories according to the relevant I.S. specifications of the materials and the said items of works and the cost of all such tests shall have to be borne by the Contractor and the rates of the items of works should be inclusive of cost of such tests.

(II) The tests have to be planned & carried out such that the progress of work is not hampered

(III) The tests are mandatory as per the prescribed frequencies and I.S. specifications. However, these are not exhaustive and the Engineer-in-charge has the right to prescribe other required test if any as will be considered from time to time.

102. a) It should be clearly understood that the joints of the bars are to be provided with lapping, welds or bolts nuts will be as directed by the Engineer-in-charge.

b) Concrete test specimens 150mm × 150mm × 150mm in size (whether plain or reinforced concrete) for the testing shall be taken for each structural member by a representative of the contractor in the presence of responsible officer of the rank not lower than that of an Assistant Engineer or sub-Divisional Officer. The contractor shall bear the cost so involved in testing. The test specimen in cube should be carried out in the Departmental Quality Control and Research Laboratory of Sunabeda, Cuttack or Bhubaneswar. Test should be carried out in accordance with the stipulation in Bridges code section-III.

c) Test specimens shall be formed carefully in accordance with the standard method of taking test specimen and no plea shall be entertained later on the grounds that the casting of the test specimen was faulty and that the result of the specimen did not give a correct indication of the actual quality of concrete.

103. Concrete of strength below of the required strength (as determined by actual tests) shall not be accepted.

104. No claim for carriage of water what-so-ever will be entertained.

105. The contractor shall employ one or more Engineering Graduate or Diploma holders as apprentice at his cost if the work as shown in the tender exceeds Rs.2,50,000/-.The apprentices will be selected by the Chief Engineer. The period of employment will commence 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 should not be less than the emolument of personnel of equivalent qualification employed under Government. The number of apprentices to be employed should be fixed by the Chief Engineer in the manner so that the total expenditure does not exceed one percent of the tendered cost of the work.

106. Super class contractor shall employ under himself two Graduate Engineer and two Diploma holders belonging to the State of Odisha. Special class contractor shall employ under him one graduate Engineer and two Diploma Holder belonging to the state of Odisha. Like wise 'A' class contractor shall employ under him one Graduate Engineer or two Diploma Holders belonging to state of Odisha. The contractor shall pay to the Engineering personnel monthly emoluments which shall not be less than the emoluments of the personnel of equivalent qualification employed under the State Govt. of Odisha. The Engineer-in Chief (Civil), Odisha may however assist the contractor with names of such unemployed Graduate engineers and Diploma Holders if such help is sought for by the contractor .The names of such Engineering personnel appointed by the Contractors should be intimated to the tender receiving authority along with the tender as to who would be supervising the work. Each bill of the Super Class, Special Class or 'A' Class Contractor shall be accompanied by an employment Roll of the Engineering personnel together with a Certificate of the Graduate Engineer or Diploma Holder so employed by the contractor to the effect that the work executed as per the bill has been supervised by him. (Vide Works Department No. Codes M-22/91-15384 dated 9.7.91).

107. The bidder must submit an authorization letter with the owner of a Ready Mix Concrete (RMC) Batching Plant during submission of Tender paper online, the plant owner will supply the required Ready Mix Concrete for execution of the work. Bids not accompanied by such authorization shall not be considered during technical evaluation. Besides, the bidder shall undertake that he will procure the Batching Plant for Ready Mix concrete established within 100 Km from the work site before execution of the work, failing which the bid will be not consider for technical evaluations.

108. Amendment of existing Clauses :- By admission of a tender for the work, a tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the work, about the quality and availability of the required quantity of material including the wheat/ rice referred to above, medical aid, labour and food stuff etc., and that rates quoted by him in the tender will be adequate to complete the work according to the specifications attached there to and that he had taken in to account all conditions and difficulties that may be encountered during its progress and to have quoted rates including labour and materials with taxes , octroi, other duties, lead, lifts, loading and unloading, freight for all materials and all other charges necessary for the completion of the work, to the entire satisfaction of the Engineer-in –Charge of the work and his authorized subordinates. After acceptance of the contract rate Government will not pay any extra charges for any reason in case the contractor claims later on to have misjudged as regard availability of materials, labour and other factors.

109. The prevailing percentage of I. T. of the gross amount of the bill towards income tax will be deducted from the contractor's bill.

110. GST on the gross amount of the bill will be deducted from the contractor's bill as tax deduction at source (TDS) as per rules applicable.

111. **Prevailing rate of CESS i.e. @1% on estimated cost put to tender as per the Building and other constructed Workers Welfare (RE&CS) Act. 1996 and buildings and other Construction workers Welfare Cess Act. 1996 (vide resolution No. 12653 Dated 15.12.2008 of Labour and Employment Department, Govt. of Odisha will be deducted from each running bill of the Contractor.**

112 **Royality, DMF, EMF & Additional Charges of Minor Minerals as applicable will be deducted as per the Govt. rule in force.**

113. The contractor is required to pay royalty to Govt. as fixed from time of time and produce such documents in support of their payment to the concerned Jr. Engineer with their bills, falling which the amount towards royalties of different materials as utilized by them in the work will be recovered from their bills and deposited in the revenue of concerned department.

114. Under no circumstances interest is chargeable for the dues or additional dues if any payable for the work.

115. Under section 12 of contractors labour (Regulation and Abolition) Act. 1970 the contractor who undertakes execution of work through labour should produce valid license from licensing authorities of labour Department.

116. Sample of all material – The contractor shall supply sample of all materials fully before procurement for the work for testing and acceptance as may be requiring by the concerned Engineer-in-charge.

117. Trial Boring – The foundation level as indicated in the body of the departmental drawing is `purely tentative and for the general guidance only. The Department has no responsibility for the suitability of actual strata at the foundation level. The contractor has to conduct his own boring before starting the work and get the samples tested at his own cost to ascertain the S.B.C. and credibility of the strata at founding level. While quoting his rates for tender the contractor shall take in to account of the above aspects.

118. Any defects, shrinkage or other faults which may be noticed within 12 (Twelve) months from the completion of the work arising out of defective or improper materials or workmanship timing are upon the direction of the Engineer-in-Charge to be amended and made good by the contractor at his own cost unless the Engineer for reasons to be recorded in writing shall be decided that they ought to be paid for and in case of default Department may recover from the contractor the cost of making good the works. The contractor is also required to maintain the road/bridge/building for 12 (Twelve) calendar months from the date of successful completion of the work.

119. From the commencement of the works to the completion of the same, they are to be under the contractors charge. The contractor is to be held responsible to make good all injuries, damages and repairs occasioned or rendered necessary to the same by fire or other causes and they hold the Govt. of Odisha harmless for any claims for injuries to person or structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the contractor or any one in his employment during the execution of the work. Also no claim shall be entertained for loss due to earthquake, flood, cyclone, epidemic, riot or any other calamity whether natural or incidental damages so caused will have to be made good by the contractor at his own cost.

120 **PRICE VARIATION CLAUSE DUE TO INCREASE OR DECREASE IN RATE OF MINIMUIM WAGES, PRINCIPAL MATERIALS, POL & OTHER MATERIALS TO BE INCORPORATED IN CONDITION OF CONTRACT (Vide Works Department Memorandum No.15847 dated/19.11.2019)**

Contract price shall be adjusted for increase or decrease in rates and price of Labor, Cement, Steel, Bitumen, pipes, POL & other materials component in accordance with the following principles and procedures as per formula given in following paras.

(a.) The price adjustment shall apply for the work done from the date given in the contract data up to end of the initial intended date or extensions granted by the Engineer and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor,

(b) The price adjustment shall be determined during each month from the formula given in following paras.

(c) Following expressions and meanings are assigned to the work done during each month.

R = Total value of work done during the month. It would include the amount of secured advance granted if any, during the month, less the amount of secured advance recovered, if any during the month. It will exclude value for works executed for extra items under variations.

121 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.

The formula (e) for adjustment of prices are :

122(a)(i) Formula to calculate the increase or decrease in the price of other materials component:

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

Vm= 0.85 x Pm/100 x R x (M1-Mo)/Mo

Vm= Increase or decrease in the cost of work during the quarter under consideration due to changes in rates of local materials other than cement, steel, bitumen, pipes and POL.

Mo = The all India wholesale price index (all commodities) on 28 days preceding the date of opening of bids , as published by the Govt. of India, Ministry of industry and commerce, New Delhi).

M1= The all India whole sale price Index (all commodities) for the monthr under consideration as published by Govt. of India, Ministry of Industry and commerce, New Delhi .

Pm= Percentage of local materials component (other than cement, steel, bitumen, pipes and POL) of the work,

122(a)(ii): Adjustment towards differential cost of cement.

Price adjustment for increase or decrease in the cost of Cement shall be paid in accordance with the following formula

Vc = 0.85 x Pc /100 x R x (Ci-Co) / Co

VC= increase of decrease in the cost of work during the month under consideration due to changes in the rates for cement.

C1=All India Wholesale price index for ordinary 38alvaniz cement (OPC) for the Month under consideration (as published by Govt. of India, Ministry of Industry and commerce, New Delhi).

Co = All India Wholesale price index for ordinary 38alvaniz cement (OPC) on 28 days preceding the date of opening of Bids as published by Govt. of India Ministry of Industry and commerce, New Delhi.

Pc = Percantage of Cement Component of the work.

122(a)(iii): Adjustment towards differential cost of Steel

Price adjustment for increase or decrease in the cost of Steel shall be paid in accordance with the following formula

V_s= 0.85 x Ps /100 x R x (S_i-S_o) x S_o

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

S_i= The all India wholesale price index for steel (mild steel long products) for the month under consideration as published by the Ministry of Commerce & Industry , Government of India, New Delhi.

So= The all India wholesale price index for steel (mild steel long products) on 28 days preceding the date of opening of Bids as published by the Ministry of Commerce & Industry , Government of India, New Delhi.

Note : For the application of this clause , index of (Mild Steel long products) has been chosen to represent steel group.

122(a)(iv): Adjustment towards differential cost of Bitumen.

Price adjustment for increase or decrease in the cost of Bitumen shall be paid in accordance with the following formula :

V_b =0.85x P_b /100 X R x(B_1 – B_o)/ B_o.

V_b =Increase or Decrease in the cost of work during the month under consideration due to changes in the rate of Bitumen.

B_i = The official retail price of bulk bitumen at IOC/BPCL Depot at nearest center for the 15th day of the month under consideration.

B_o=. The official retail price of bulk bitumen at IOC/BPCL Depot at nearest center on the day 28 days prior to date of opening of Bids

P_b = Percentage of Bitumen component of the work.

122(a)(v): Adjustment towards differential cost of pipes.

Price adjustment for increase or decrease in the cost of pipe shall be paid in accordance with the following formula :

V_{pi} = 0.85x Pp/100x R (Pi-Po)/Po

V_{pi} = Differential cost of pipe i.e. amount or increase of decrease in rupees to be paid or recovered during the quarter under consideration.

P_{pi} = Percentage of pipe component of the work .

Pi1 =All India Whole sale price Index for the period under consideration as published by, Govt. of India, Ministry of Industry and Commerce, New Delhi.

P_{io} =All India Wholesale price Index of pipe on 28 days preceding the date of opening of bids as published by the ministry of commerce and Industry, Government of India, New Delhi.

122(b) : **Adjustment of Labour Component**

Price adjustment for increase or decrease in the cost Due to Labour shall be paid in accordance with the following formula:

$V_L = 0.85 \times P1/100 \times R \times (L_1 - L_0)/ L_0$.

V_L = Increase or decrease in the cost of work during the Month under consideration due to changes in rates of Local Labour.

L_0= The minimum wages of unskilled labour as notified by State Government, of Odisha as prevailed on the last stipulated date of receipt of tender including extension, if any.

L_1= The minimum wages for unskilled labour as notified by State Government & as prevailed on the last date of the Month previous to the one under consideration

P1= Percentage of labour component of the work.

122. c REIMBURSEMENT /REFUND DUE TO VARIATION IN PRICES OF P.O.L.

Price adjustment for increase or decrease in the cost of pol (Fuel & Lubricant) shall be paid in accordance with the following formula:

$V_f = 0.85 \times P_1/100 \times R \times (F_i - F_o) / F_o$

Vf = Increase or decrease in the cost of work during the month under consideration due to changes in rates for P.O.L.

P1= Percentage of P.O.L component of the work.

F_i = The official retail price of High speed Diesel (HSD) at the existing consumer pumps of IOC/BPCL/HPCL at nearest center for the 15th day of the month under consideration.

F_0= The official retail price of High speed Diesel (HSD) at the existing consumer pumps of IOC/BPCL/HPCL at nearest center on the day 28 days prior to the date of opening of Bids.

NOTE : For the application of this clause, the price of High Speed Diesel oil has been chosen to represent fuel & lubricants group.

122(d): Adjustment for Plants & Machinery Spares Component: (NOT APPLICABLE)

Price adjustment for increase or decrease in the cost of Plants & Machinery Spares procured by the contractor shall be paid in accordance with the following formula:

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

Vp = Increase or Decrease in the cost of work during the month under consideration due to change in the rates for Plants & Machinery Spares.

P_o = The all India wholesale price index for manufacture of machinery for mining , quarrying and construction on 28 days preceding the date of opening of the Bids as published by the Ministry of Commerce and Industry, Govt. of India , New Delhi.

P_i = The all India wholesale price index for manufacture of machinery for mining , quarrying and Construction For the month under consideration as published by the Ministry of Commerce and Industry, Govt. of India , New Delhi.

P_p = Percentage of Plants & Machinery Spares components of the work.

Note : For the application of this clause , index of manufacturing of machinery for mining , quarrying and Construction has been chosen to represent the Plants & Machinery Spares group.

Regarding wholesale price index (WPI) for appropriate commodity for payment of price adjustment, due to change of base year of WPI from 1993-94 to 2004-05 & 2011-2012 , it is observed that , the commodity ' Bars and ROD ', "Cement" , " Heavy Machinery and parts " included in the list of WPI 1993-94 Series are not mentioned as such in the WPI 2004-05 & 2011-12 series. Therefore , the following items in the WPI 2004-05 & 2011-12 series shall be considered corresponding to items in WPI 1993-94 Series.

Sl no.	Item in WPI 1993-94 Series	Item in WPI 2004-05 series	Item in WPI 2011-12 series
1	Cement	Grey Cement	Ordinary Portland Cement
2	Bars & Rods	Rebars	Mild steel long products
3	Heavy Machinery & Parts	Construction Machinery	Manufacture of machinery for mining, quarrying & construction.

122(e): APPLICATION OF ESCALATION CLAUSE:

(I) The contractor shall for the purpose of availing reimbursement/refund of differential cost of steel, bitumen, cement, pipe, POL and wages, keep such books of account and other documents as are necessary to show that the amount of increase claimed or reduction available and shall allow inspection of the same by a duly authorized representative of Government and further, shall at the request of the Engineer –in-Charge furnish documents to be verified in such a manner as the Engineer- in-charge may require any document and information kept. The contractor shall within a reasonable time of 15 days of his becoming aware of any alteration in the price of such material, wages of labour and /or price of P.O.L give notice thereof to the Engineer-in-Charge stating that the same is given pursuant to this condition along with information relating there to which he may be in a position to supply.

Percentage Table

SL. No	Category of works		% component(cost wise)		
			Labour (P1)	POL (P1)	Steel + Cement + bitumen + other materials*
1.	R&B Works (%of component)	Road works	5	5	90
		Bridge works	5	5	90
		Building Works	5	5	90
2.	Irrigation Woks (%of component)	Structural work	5	5	90
		Earth, Canal & Embankment work	5	5	90
3.	P.H. work	Structural Work Pipe Line Work Sewer Line	5 5 5	5 5 5	90 Pipe – 70% * other material–20% Pipe–70% * other material–20%

***Note- Further break up may be worked out considering the consumption of Cement, Steel, Bitumen Pipe and Plants & machinery spare component in the concerned woks and shall be provided in the bid document in shape of "Schedule of Adjustment Data" as an " Appendix to Bid"(Enclosed herewith).**

Appendix to Bids

Schedule of Adjustment of Data

(For all works , adjustments factor for labour and POL shall be considered @ 5% each . Steel , cement pipes, other materials and machinery shall contribute to 90% of price Adjustment and shall be calculated for each work separately during preparion of estimate , shall be approved by the authority during technical sanction as a " schedule of Adjustment Data" and shall form part of the Bid Document)

Cl No – 31 of F2/P1 Contracts Sl No.	**Index Description**	**Source of Index**	**Base Value***	**Base Date***	**Weightage of Item****
31 (a) (i)	Other materials	All India whole sale price Index (all commodities) as published by the Economic Advisor to the Govt. of India, Ministry of Industry and commerce, New Delhi .			
31(a)(ii)	cement	whole sale price Index for Cement (Ordinary Portland cement) as published by the Economic Advisor to the Govt. of India, Ministry of Industry and commerce, New Delhi .			
31(a)(iii)	steel	whole sale price Index for Steel (Mild steel –Long products) as published by the Economic Advisor to the Govt. of India, Ministry of Industry and commerce, New Delhi .			
31(a)(iv)	Bitumen(VG-30)	Official retail price of Bulk Bitumen at the nearest IOC/BPCL/HPCL depot.			
31(a)(v)	Pipes	whole sale price Index for the type of Pipe under consideration , as published by the Economic Advisor to the Govt. of India, Ministry of Industry and commerce, New Delhi			
31(b)	Labour	Minimum wages Notified by the Labour and Employee's state Insurance Department Of Govt. of Odisha, India.			5%
31I	POL	Official retail price of HSD at the nearest IOC/BPCL/HPCL consumer pump depot.			5%
31(d)	Plants & Machinery (not applicable)	whole sale price Index for Manufacture of Machinery for Mining, Quarring and Consumption as published by the Economic Advisor to the Govt. of India, Ministry of Industry and commerce, New Delhi			
			Total		**100%**

***Values to be filled up at the time of Drawl of Contract**

****Values to be filled up in the Bid Document.**

123. The contractor has to arrange the land required for borrowing earth if necessary for the work at his cost. No extra payment by the Department will be made on this account and no claim what-so-ever will be entertained on this ground. The rate quoted by the contractor should be inclusive of all such charges.

124. Where it will be found necessary by the Department, the Officer-in-Charge of the work shall issue a Site Order book to the contractor to be kept at the site of the work with pages serially numbered. Orders regarding the work whenever necessary are to be entered in this book by the P.W.D. Officer-in-Charge with their dated signatures and duly noted by the contractor or his authorized agents with their dated signature. Orders entered in this book and noted by the contractor's agent shall be considered to have been duly given to the contractor for following the instructions of the Department. The Site Order Book shall be the property of the P.W.D. and shall not be removed from the site of work without written permission of the Engineer (Jr. Engineer) and to be submitted to the Engineer-in-charge every month.

125. The bidder should conduct S.B.C. of soil at foundation level and furnish the test results in conformity with I.R.C. code at his own cost before execution of the work and rate quoted by the contractor should be inclusive of such bores and S.B.C. tests etc. without any extra cost to the Department.

126. The details of foundation and sub-structure for execution may be done in accordance with the test results thus obtained.

127. The contractor shall have no claim what so ever for the extra quantity of work to be executed in view of above possible changes and payments is to be made as per Clause 11 of the **P-1** Contract.

128. Over and above these conditions, the terms and conditions and rules and regulations and specifications as laid down in Odisha P.W.D. Code, Bridge code and MORT&H Specifications with latest revision / amendment are also binding on the part of the contractor.

129. The contractor should attach the certificate in token of payment deposit with the registration authority as per recent circular of the Government relating to his registration.

130. Any damages caused by natural calamities should be done by the contractor at his own cost. The Department will not be any way responsible for the same and will not pay any cost towards the repair done by the contractor.

131. 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 the bridge site etc. are the responsibility of the contractor.

132. The concrete items wherever dewatering is imperatively necessary the term dewatering shall mean the execution or operation of the items due to standing water as well as due to percolation of water. The quoted rate will be inclusive of this.

133. The materials, borrow areas and hutments at site should be arranged by the contractor at his own cost. No future complaint on this account shall be entertained.

134. The contractor shall make requisition of claim book from the date of commencement of the work from the Department and shall maintain in proper P.W.D. form with pages serially numbered in order to record items of works are not covered by his contract and claimable as extra. Claims shall be entered regularly in this book under the dated signature of the contractor or his duly authorized agents at the end of each month. A certificate should be furnished along with the claim to the effect that he has no other claim beyond this claim up-to-date. If in any month there are no claims to record, a certificate to that effect should be furnished by the contractor in the claim book. Each claim must be defined and should be given as for as possible regarding the quantities as well as the total amount claimed. The claim book must be submitted by the contractor regularly by 10th and 16th days of each month for orders of the Engineer-in-Charge or competent authority. Claims not made in this manner or the claim books not maintained from the commencement of the work are liable to be summararily rejected. The claim books rae the property of the P.W.D. and shall be surrendered by the contractor to the Engineer-in-charge after completion of the work or before recession of the contract by the Department which ever is earlier for record.

135. Number of tests as specified in I.R.C./MORT&H/I.S.I specification required for the construction of roads /bridges / buildings or any other structural works will be conducted in any Govt. Test House / Departmental laboratories/reputed material testing laboratory as to be decided by the Engineer-in-charge. Testing charges including expenditure for collection / transportation of samples /specimens etc. will be borne by the contractor. The collection of samples and testing are to be conducted for both prior to execution and during execution as may be directed by the Engineer-in-charge and on both the accounts the cost shall be borne by the contractor.

136. i) Besides, the firm / contractor shall install full fledged field laboratory at work site for conducting required tests as per IRC/MORT&H/ISI requirements at his own cost for providing sufficient opportunity for checking from time to time.

ii) An Engineering personnel of the executing agency should be present at work site at the time of visit of high level inspecting officers in the rank of Chief Engineer and above.

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

(a) Making a false statement or declaration.

(b) Past record of poor performance.

c) Past record of abandoning the work half way/ recession of contract.

(d) Past record of in-ordinate delay in completion of the work.

(e) Past history of litigation.

138. The information furnished must be sufficient to show that the applicant is capable in all respects to successfully complete the envisaged work.

139. if L1 bidder does not turn up for agreement after finalization of the tender, then his EMD shall be forefeited and he shall be debarred from participation in bidding for three years and action will be taken to blacklist the contractor. In that case, the L2 bidder, if fulfils, other required criteria would be called for drawing agreement for execution of work subject to the condition that L2 bidder negotiates at par with the rate quoted by the L1 bidder otherwise the tender will be cancelled. In case a contractor is black listed, it will be widely published and intimated to all departments of Government and also to Govt. of India agencies working in the state.

140. ADDENDUM TO THE CONDITION OF P1 CONTRACT

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

2.1. Progress of work and Re-scheduling programme.

2.1.1. The Executive Engineer / Engineer- in- Charge shall issue the letter of acceptance to the successful contractor. The issue of the letter of acceptance shall be treated as closure of the Bid process and commencement of the contract.

2.1.2. With in 15 days of issue of the letter of acceptance, the contractor shall submit to the Engineer-in-Charge for approval a Programme commensurate **to Clause No. 2.1.3** showing the general methods, arrangements, and timing for all the activities in the Works along with monthly cash flow forecast.

2.1.3. To ensure good progress during the execution of the work the contractors shall be bound in all cases in which the time allowed for any work exceeds one month to complete, 1/4th of the whole time allowed under the contract has elapsed, ½ of the whole of the work before ½ of the whole time allowed under the contract has elapsed, 3/4th of the whole of the work before 3/4th of the whole time allowed under the contract has elapsed.

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

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

2.1.6. The Engineer-in-Charge's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer-in-Charge again at any time. A revised Programme is to show the effect of Variations and Compensation Events.

2.2. Extension of the Completion Date.

2.2.1. The time allowed for execution of the works as specified in the Contract data shall be the essence of the Contract. The execution of the works shall commence from the 15th day or such time period as mentioned in letter of Award after the date on which the Engineer-in-Charge issues written orders to commence the work or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee / Security deposit absolutely.

2.2.2. As soon as possible after the Contract is concluded the Contractor shall submit the Time & 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 Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the contract documents, 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 one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per milestone given in contract data.

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

i) Force Majeure, or
ii) Abnormally bad weather, or
iii) Serious loss or damage by fire, or
iv) Civil commotion, local commotion of workmen, strike or lockout affecting any of the trades employed on the work, or.
v) Delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract.
vi) In case a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work and which would cause the Contractor to incur additional cost, or
vii) Any other cause, which, in the absolute discretion of the authority mentioned, in Contract data is beyond the Contractors control.

2.2.4. Request for reschedule and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

2.2.5. In any such case a fair and reasonable extension of time for completion of work may 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 and reasonable extension by the Engineer-in-Charge and this shall be binding on the contractor.

2.3. **Compensation for Delay**.

2.3.1. If the contractor fails to maintain the required progress in terms of clause 2 of P-1 contract or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation 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 of tendered value of the work for every completed day / month (as applicable) that the progress remains below that specified in Clause 2 of P-1 contract or that the work remains incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified. Compensation @ 1.5% per month for delay of work, delay to be completed on per Day basis. Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government. In case, the contractor does not achieve a particular milestone mentioned in contract data, (which is in this case the original work programme furnished by the Contractor and approved by the Engineer-in-Charge which formed a part of agreement) or the rescheduled milestone(s) in terms of Clause 2.5, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of extension of time. Withholding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress 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), amount mentioned against each milestone missed subsequently also shall be withheld. However no interest whatsoever shall be payable on such withheld amount.

2.5. **Management Meetings.**

2.5.1. Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

2.5.2. The Engineer shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting. a) Misbehavior/threatening of Departmental & supervisory officers during execution of work/tendering process.

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):-

To rescind the contract (of which rescission notice in writing to the contractor under the hand of the Engineer-in-charge shall be conclusive evidence), 20% of the value of left over work will be realized from the contractor as penalty.

141. BLACK LISTING OF CONTRACTOR;-

A Contractor may be black listed as per amendment made to Appendix XXXIV to OPWD Code Vol.-II on rules for black listing of Contractors vide letter no.3365 dt.01.03.2007 of Works Department, Odisha. And Office Memorandum no-10496 dt.12.07.2018 of works Department, Government of Odisha.
As per said amendment a Contractor may be blacklisted .
b) Involvement in any sort of tender fixing.
c) Constant non-achievement of milestones on insufficient and imaginary grounds and non-adherence to quality specifications despite being pointed out.
d) Persistent and intentional violation of important conditions of contract.
e) Security consideration of the State i.e. any action that jeopardizes the security of the State.
f) Submission of false/ fabricated / forged documents for consideration of a tender.
g) Non Submission of Additional Performance Security (APS) within stipulated period
h) Keeping business Relationship with a fraud Company in any manner that affects the contract executed with Government or Government Agency" for Blacklisting of Contractor.

Note : JOINT VENTURES ARE NOT ACCEPTED..

The Statement showing the value of existing commitments and ongoing works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer-in-Charge not below the rank of PA, ITDA.

Furnishing of such documents along with the Technical Bid is mandatory otherwise, his/ her bid shall be declared as non responsive and thus liable for rejection and action to be taken as per relevant clauses of Instruction to Bidders for e-procurement

CANVASSING IN ANY FORM, DIRECT OR INDIRECT, EXERTING PRESSURE, COERCION, INTIMIDATION, THREATENING AND THUS INTERFERENCE IN THE TENDER PROCESS WILL RENDER THE BID LIABLE FOR REJECTION AND THE LICENSE OF SUCH BIDDER FOR CANCELLATION.

142. Engineer Contractor desirous to avail the facility of exemption of E.M.D. is required to submit an affidavit to the effect that he has not yet been awarded more than three works (excluding this work) with exemption of EMD during the current financial year. The name of the works awarded with exemption of EMD and the tender inviting authority must be mentioned in the affidavit, failing which the tender will be rejected.

Total: - 142 (One hundred forty two) clauses only

APPROVED BY

Sd/-

Project Administrator

ITDA, Malkangiri

TECHNICAL SPECIFICATION OF CIVIL PORTION OF WORK

Materials of following specification are to be used in work. The Tenderer are expected to possess and be well conversant with the following IS standard and code of practice.

1.	Cement	Will be as per I.S. 269/455 (However the grade of cement to be selected by the Engineer-in-Charge of work and compressive cube test before commencement of work in each batch).
2.	Steel	I.S. 432 (Plain) and 1786 (Tor)
3.	Vibrator	I.S. 7246
4.	Aggregate	I.S. 383, I.S. 515
5.	Water for mixing and curing	Shall be clean, free from injurious amount of oil, salt, acid, vegetable materials and other substances and harmful to concrete in conformity to I.S. 456 and I.S. 2025.
6.	Sand / Fine Aggregate	I.S. 2116, 383
7.	Binding wire	I.S. 280 (alvanized minimum 1 mm)
8.	Rain water pipe	I.S. 2527
9.	Construction joints	I.S. 3414
10.	Steel Window Frame	I.S. 1038/83
11.	Steel Door Frame	I.S. 4351/75
12.	Fitting & Fixtures for works joinery	Conforming to I.S. 7452/82 strictly conform to I.S. specification and as per direction of Engineer-in-Charge.

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

ITEM OF WORK

1. Concrete shall be with conformity to I.S.456.
2. Foundation shall be with conformity to I.S.1080.
3. Stone masonry (R.R.) shall be with conformity to I.S.1597 (Part-I)
4. C.R. Masonry shall be with conformity to I.S.1597.
5. Cement concrete Block shall be with conformity to I.S.3590.
6. Cement plastering shall be with conformity to I.S.9103 & 6925.
7. Mortar shall be with conformity to I.S.2250
8. White and colour washing shall be with conformity to I.S.6278.
9. CC in foundation shall be with conformity to I.S.2571.
10. Anti-Termite Treatment shall be with conformity to I.S.6813. (Part – I & Part – II)
11. Painting to all surfaces shall be with conformity to I.S.2395 (Part – I & Part – II)
12. DPC shall be with conformity to I.S.3067
13. Tar felt treatment shall be with conformity to I.S.1346
14. Mosaic flooring with conformity to I.S.2114
15. Steel painting shall be with conformity to I.S.1477 (Part – I & Part – II) I.S.1661

SCHEDULE-A

CERTIFICATE OF NO RELATIONSHIP

I/We hereby certify that I/We* am/are* **related/not related**(*) to any officer of PA ITDA,Malkangiri of the rank of Assistant Engineer & above and any officer of the rank of Assistant **/** Under Secretary and above of the Works Department, Govt. of Odisha I/We* am/are* aware that, if the facts subsequently proved to be false, my/our* contract will be rescinded with forfeiture of E.M.D and security deposit and I/We* shall be liable to make good the loss or damage resulting from such cancellation.

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

(*) – Strike out which is not applicable Signature of the Tenderer

Date:-

SCHEDULE-"F"

INFORMATION REGARDING CURRENT LITIGATION, DEBARRING EXPELLING OF TENDERED OR ABANDONMENT OF WORK BY THE TENDERER

1.	a) Is the tenderer currently involved in any litigation relating to the works. b) If yes: give details:	Yes / No
2.	a) Has the tenderer or any of its constituent partners been debarred/ expelled by any agency in India during the last 5 years.	Yes / No
3.	a) Has the tenderer or any of its constituent partners failed to perform on any contract work in India during the last 5 years. b) If yes, give details:	Yes / No

Note: If any information in this schedule is found to be incorrect or concealed, qualification application will be **summararily rejected**.

Signature of the tenderer

SCHEUDLE – D

D-1. LIST OF PROJECTS EXECUTED (COMPLETED/ IN HAND)

Format-I (Work executed)-Refer Cl 2.1 (4) of Instructions to Tenderers of DTCN

1.3.1 Work performed as prime contractor (in the same name & style) on construction works, from the date of receipt of this bid. Attach certificate from the Executive Engineer/ PA, ITDA / Divisional Officer/ Equivalent Officer.

Project name	Name of Agmt. holder	Description of work	Value of contract	Contract No	Date of issue of work order	Stipulated date of completion	Actual date of completion, if completed	value of work done as per the certificate furnished		Physical Status of the Project	Remarks
								Value of work already executed including GST (Rs in lakh)	Value of works remaining to be completed as on Dtd (Rs.in lakhs)		
1	2	3	4	5	6	7	8	9	10	11	12

Signature

Note: The above information is to be certified by the Engineer in Charge / Employer not below the rank of Executive Engineer / PA, ITDA/ Equivalent Officer.

Signature of the Tenderer

N.B. - The bidder should have satisfactorily completed similar nature of work costing not less than 75% of the tender value of the project during the last five financial years including the current/base year. The required experience may be derived from one single work or from two or three similar works executed during the above period, the combined value of which shall not be less than 75% of the tender value. Similar nature of work means construction of new building works only executed for any authority/body of the State Government or Central Government. The experience certificate must be submitted by the bidder and shall be issued by the concerned officer of the State/Central Government not below the rank of Executive Engineer or an equivalent officer.

CONTRACTOR

PROJECT ADMINISTRATOR
ITDA, MALKANGIRI

SCHEDULE –"F"

AFFIDAVIT (In Any other form cannot be considered)

1. The undersigned do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither **our firm M/s**_____ **nor any of its constituent partners / I** have abandoned any road/ bridge/Irrigation /Buildings or other project work in India nor any contract awarded to us / me for such works have been rescinded during the last five years prior to the date of this bid.
3. The undersigned hereby authorised and request (s) any bank, person, firm or Corporation to furnish pertinent information as deemed necessary and as requested by the Department to verify this statement or regarding my (our) competency and general reputation.
4. The undersigned understands and agrees that further qualifying information may be requested and agree to furnish any such information at the request of the Department.

(Signed by an Authorised Officer of the firm or Bidder)

SCHEDULE - G

CERTIFICATE OF EMPLOYMENT OF UNEMPLOYED GRADUATE ENGINEER / DIPLOMA HOLDERS

(For Super Class / Special Class / „A" Class Contractors only)

I / We hereby certify that at present, the following Engineering personnel are working with me / in our firm / company and their bio-data are furnished below.

Sl. No.	**Name of Engineering personnel appointedfor supervising contractor's work with address**	**Qualification**	**Date of Appointment**	**Monthly emolument**	**Whether full time engagement and continuous**	**If they are superannuated / retired / dismissed or removed personnel from state Govt./ Central Govt. / Public Sector Undertaking / private Companies and s or any one ineligible for Government service**
1	**2**	**3**	**4**	**5**	**6**	**7**

Signature of the Tenderer.

Schedule-J

MEMORANDUM OF UNDERSTANDING

First Party I Sri/Smt.……, Aged …. years, S/O ..... , At /
P.O. / Dist ..... (hereinafter called the First Part)

AND

Second Party I Sri/Smt.……, Aged …. years, S/O- ……..., At /
P.O. / Dist-…… (herein after called the Second Part) having H.T.. license registration No……. valid upto ……..

AND WHEREAS the First Party of 1st part is the managing partner of …….
AND WHEREAS the First Party willing to appoint the Second Party to execute the E.I. portion for the tender work, "… ..... "
AND WHEREAS the Second Party accepted the offer of First Party.

NOW THIS DEED OF AGREEMENT WITNESSES AS FOLLOWS;

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

2) That, the Second Party shall fulfil all the E.I. works as per the tender schedule by instruction of
Engineer-in-Charge.

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

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

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

WITNESS

W1 -

W2 -

ANNEXURE – I OF SCHEDULE-C

LIST OF PLANT AND EQUIPMENTS TO BE DEPLOYED ON THE CONTRACT WORK (MINIMUM REQUIREMENT)

Sl. No.	List of plants and equipment	Requirement	Marks
01	**Truck / Tipper (10T each) No marks will be awarded for the vehicles those have no valid permit and fitness.**	**02 Nos.**	**15**
02	**Water Tanker (Minimum capacity 5000 ltr)**	**02 Nos.**	**10**
03	**Concrete Mixture**	**02 Nos.**	**10**
04	**Concrete Needle Vibrator**	**02 Nos.**	**10**
05	**Concrete Plate Vibrator**	**02 Nos.**	**05**
06	**Backhoe Loader/ Hydraulic Excavator**	**01 No**	**10**
07	**Generator 33 KVA**	**01 No**	**10**
08	**Complete staging, shuttering, centering arrangement c. For steel shuttering – Not older than 5 years d. For wooden/Ply shuttering – Not older than 2 years (No marks will be awarded if the shuttering material area is less than 700 sqm)**	**700 Sqm.**	**15**
09	**De-watering Pump**	**02 Nos.**	**06**
10	**Welding Machine**	**01 No**	**03**
11	**Tractor**	**01 No**	**06**
	MINIMUM QUALIFYING MARK-80	**Total**	**100**

N.B. : 1. Submission of forged / fabricated documents/ invoices/ vouchers to prove the purchase & ownership of T&P / Machineries shall be treated as an offence. Such case will be forwarded to the Crime Branch and License issuing authority for needful Penal action.

1. **Bidders are requested to mention the detail address and Landline Phone Number of the shop / company on the invoices / vouchers to verify the authenticity of purchase of the equipments / machineries.**
2. **Non-submission of Original bid security and bid cost within the designated period shall debar the bidder from participating in the on-line bidding system and his portal registration shall be blocked. His name shall also be informed to the registering authority for cancellation of his registration as Contractor.**
3. **Plants and Equipments purchased by the bidder through auction sale will not be considered during technical bid evaluation.**
4. **Valid permit and fitness certificate of owned/leased vehicles should be furnished otherwise no marks will be awarded for the provided documents.**
5. **NOTE:** 1. Capacity of each plant and equipment should be as per specification attached separately.
   1. The above equipment should either be owned or availed on long-term lease extended beyond the duration of the work, the authority of which in either case is to be substantiated before award of the work.
   2. The equipment mentioned above must be included in Schedule “C” and clearly indicated as “Owned/leased.”
   3. The above list is not exhaustive. All other machinery/equipments as will be required for satisfactory completion of the work shall have to be deployed by the agency.

SCHEUDLE – C

CERTIFICATE OF TOOLS AND PLANTS

4. I/We hereby certify that the following tools and plants, machineries and vehicles are in my /our possession and in working order.

Sl. No	Type of Equipments	No. of machines required	Marks	No. of machines owned leased/hired
01	Truck / Tipper (10T each No marks will be awarded for the vehicles those have no valid permit and fitness.	02 Nos.	15	
02	Water Tanker (Minimum capacity 5000 ltr)	02 Nos.	5	
03	Concrete Mixture	02 Nos.	10	
04	Concrete Needle Vibrator	02 Nos.	10	
05	Concrete Plate Vibrator	02 Nos.	10	
06	Backhoe Loader/ Hydraulic Excavator	01 No	10	
07	Generator 33 KVA	01 No	5	
08	Complete staging, shuttering, centering arrangement c. For steel shuttering – Not older than 5 years d. For wooden/Ply shuttering – Not older than 2 years (No marks will be awarded if the shuttering material area is less than 700 sqm)	700 Sqm.	15	
09	Watering Pump	02 Nos.	5	
10	Welding Machine	01 No	5	
11	Tractor	01 No	10	

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

5. Signature of the Tenderer Date.

TECHNICAL SPECIFICATION OF INTERNAL ELECTRIFICATION WORKS

The details of internal wiring, the position of fittings, fans, switches and plug sockets 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 and the actual position of these shall be mutually decided between the supplier and the purchaser. The supplier shall submit the purchaser of his consideration and approval all runs of wiring and the exact position of all the points and the switch boxes first marked on the points buildings.

All internal wiring shall be done in conformity to the latest Indian standard specification/Rules, code of practice adopted by CPWD and other standard practices prevalent in the part of the country. For the purpose of the specification the terminology used shall be as defined in IS:732 and IS:1356 ofr the definition of points wiring. The installation shall be carried out in conformity to all requirements of IE Act,1910 and IE Rules 1956.

a) Ceiling rose in (in case of ceiling and exhaust fan).

b) Ceiling rose or connector (in case of pendants except stiff pendant points)

c) Bank plate (in case of stiff pendant).

d) Socket outlet (in case of socket outlet points)

e) Lamps holder (in case of wall Bracket, batten holder bulk head fitting and similar other fittings)

f) Call bell / buzzer (in case words ‘via’ the switch shall be read ‘via’ the ceiling rose / socket outlet for bell push, where no ceiling rose / socket outlet its provided.

The following shall be deemed to be included in the point wiring

a) Switch and ceiling rose are required

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

c) Bushed conduit for porcelain tubing where cables pass through walls.

d) All wood or metal blocks, boards and boxes, R.J. Boxes sunks or surface type including those required for fan regulator but excluding those under the distribution board and main control switch.

e) Earth wire from 3 pin socket point to the common earth including connection to the earth dolley.

f) Earth wire of 16SWG/14 SWG/I.G. wire for loop earthing of the fixture

g) All fixing accessories such as clips, nails, screw, plug, rawl plug, wooden plug, round blocks etc. as required

h) Joint for junction boxes and connecting the same as required

i) Connections to ceiling rose or connection socket outlet, lamp holders, switch, fan regulators etc

The point wiring in case of fan and light points shall mean the distance between the control switch and ceiling rose, connect or back plate, socket outlet or lamp holder depending upon the fittings measured along the runs of wiring irrespective of the number of wires in run. In the case of socket outlet points, the length shall mean the distance between the socket outlet and the tapping point of live wire on the nearest switchboard or junction box, as the case may 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 be treated as the nearest tapping point. In case of call bell / buzzer points the length shall mean the distance between the call bell and the ceiling rose / socket outlet or the bell push (when the ceiling rose / socket outlet is not used).

Sub main shall include the earth wire of adequate size main distribution Board up to sub distribution board B.B. such wiring has been classified on the basis of length. For the internal lighting, either surface conduct wiring system or recessed conduit or batten wiring system shall be provided as specific in the bill of quantities and working drawings.

Conduit wiring

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 properly positioned and fixed so that it will not be displaced at the time of concreting. The junction boxes provided shall be so arranged that its cover will be flushed with the finished surface of the ceiling or column.

For placing the conduits in the walls, chases of ample dimension shall be made neatly to fix the conduit in a desired manner. The conduit pipe shall be fixed by means of staple or saddles not more than 600mm apart. Fixing of standard bends or elbows shall be avoided and all curves maintained by bending the conduit itself with a long radius will permit easy drawing of the conductors. Suitable inspection boxes shall be provided to permit periodical inspection and removal or replacement of wires if necessary. There shall be mounted flush with the wall with holes in the cover of the box.

The switch or regulator box shall be made of metal on all sides except on the front where backlight sheet or Perspex cover painted to match the colours of the wall shall be used I case of surface wiring system. For recessed wiring system, these boxes shall be made flush with the conduit of each conduit or section shall be completed before conductors are drawn in. The entire system of conduit after installation shall be tested or mechanical strength and electrical continuity throughout the earthing of the entire

installation shall be carried out in accordance with I.E. Rules and standards

The number of wires drawn in the conduits shall not exceed the numbers those specified in Indian standard specification No.732.

Main and Sub distribution Boards:

The position of main boards for lighting and sub distribution board for different buildings are approximate and the exact location shall be given to the successful tenderer at the time of installation.

The scope of this specification includes installation of the panel boards and distribution boards and making necessary connections. The installation of the boards shall be done strictly in accordance with the details supplied with the specifications; the instructions supplied by the switchgear manufacturer, Indian standard specifications and H.E. rules.

The supplier shall submit the details of installations to the purchaser for his consideration and approval, prior to installation.

When the switchboards are wall / column mounted top, they shall, be mounted on a suitable angle iron framework. All the metal supports etc. shall be protected against corrosion. The mounting height for such switchboards shall be such that it can be conveniently operated.

Earthing

Earthing shall generally be carried out in accordance with the requirements of Indian Eletricity Rules and the relevant rules and regulations of electrical supply authorities. The complete earthing work for the installation covered by this specifications shall also be provided taking into account Indian Standard Specification No.IS:732 and IS:3043. The earthing system adopted shall also have adequate mechanical strength.

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

Installation, testing and Commissioning:

The supplier shall be responsible for the installation testing the commissioning of all the equipment and materials supplied by him against this specification. This shall also include the provision of miscellaneous wiring and supports and earthing in compliance with Indian Electricity rules and to he 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 items specified in the bill of quantities and the tenderer should quote for each item taking these into consideration.

The responsibility of the supplier shall include receiving all the equipment and materials 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 and handing over the installation complete in all respect to the entire satisfaction of the purchaser's authorized representative. The supplier shall make good of all the damaged equipment and materials during this period at his own expense.

The supplier shall submit sample of each and every equipment and materials for the final approval of the purchaser's representatives immediately after the acceptance of offer. All the equipments and materials shall be supplied exactly as per to the approved samples. If at any stage the purchaser brings to the notice of the supplier any discrepancy or defect the supplier shall replace the same at his own expense.

The supplier shall render all reasonable assistance to the purchaser in getting the installation approved by the Government Electrical Inspector prior to the energisation and supply necessary drawings, test certificates and both for tests carried out at the factory and site as well as the tests which the inspector may demand. In case any addition of alternations are required, to be made in the installation or in the equipment as per he directive of the Government Electrical Inspector / Local Authorities, he same will have to be carried out by the supplier , at his own expense.

The position of light fittings, main board, switches, sockets and routes of pipes and cables shown in the drawings are only indicative. The actual position of these shall be decided at site at the time of execution joints by the supplier and the purchaser's authorized representative. The position of light fittings, pipes and board if required, to be changed / shifted due to the change in the building design etc by the purchaser's authorized representative, the same shall be carried out at no extra cost.

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

No surplus materials procured by the contractor will be accepted by the owner.

The contractor will be responsible to get the Electric installations cleared by the Electrical Inspector of Odisha Government.

Only the inspection fee will be reimbursed by Department on production of challan copy.

Drawings:

All drawings, test certificates, instructions manuals etc. shall be in English Language and all dimensions and weights shall be in metric units.

The tenderer shall submit with the tender general arrangement drawings for the installations work, typical methods and cabling and cables supports pipe work and pipe supports, typical methods of earthing and fixing of light fittings earthing etc. as offered by him in the tender.

The contractor shall submit for he purchaser's approval all layout, the general arrangement drawings as well as the typical details of all types of installation work in three sets before commencing the manufacture and the site installations work well in advance so that the site work shall not sufer.

After obtaining approval of the above drawings the contractor shall supply three sets of the following drawings:

(a) The arrangement and support of conduit pipe

(b) The position of light fittings, switches / plug socket and switch boards

(c) Earthing installations

(d) Layout plan showing the entire cable network

On completion of work, the successful tenderer shall supply one set of tracing in transparent linen and five sets of prints of all drawings incorporating all the changes / modifications affected during the execution of the contact. All wiring

diagrams shall indicate clearly, the switch board, the runs of main and sub main wiring and the position of all the points with their controls. All the circuits shall be clearly indicated and numbered in a accordance with IS:375.

The technical literatures and operating instructions and the maintenance manuals shall also be supplied in triplicate to the purchasers after the completion of the installations work.

Test:

Manufactures standard tests in accordance with Indian Standard and other standards, adopted shall be carried out on all the equipment and accessories covered by this specification so as to ensure efficient and satisfactory performances of all the components and also the equipment as a whole under working conditions at site. The tenderer shall submit a complete list of all such tests. If the purchaser, if so desired for special tests, to be carried out, under certain conditions the same shall be made by the successful tenderer at his own expenses.

All equipment shall be tested at site before the commissioning in accordance with the adopted standard and Indian Electricity Rules. Voltage test shall be carried out on each circuit on completion of wiring and cabling.

Technical Data:

The tenderers shall submit with their tender all such technical data, which are required for complete evaluation of the equipment offered. The suppliers shall give complete technical information of the equipment as detailed in Annexure and relevant Indian standards. The tenderer should supply such details of all equipment and materials offered specially with regard to the following.

a) Fuse switch board and distribution boards

b) Light fittings

c) Conduits and the accessories for them

d) Switches / plug sockets

e) Cable and wires

The tender shall give along with his tender the following details:

a) Complete details of earthing electrodes, earthing station and earthing conductors

b) Details of conduit supports

c) Details of all the equipment and accessories to be supplied

Exception to Specifications:

The object of this specification is to have all tenderers quote for equivalent materials and workmanship. It is, however, understood the certain manufacturers may not be able to offer as specified in every case, where the tenderer may find it necessary to deviate from the exact letter and not the intent of the specification, he must specifically state what these deviations may be at the time he submits the tender. All deviations must be grouped in one statement.

No deviations other than those includes in the tender will be permitted. These deviations should be listed as per Annexure.

PVC insulated Cables and Wires:

For 415V Distribution system, cables of voltage grade not less than 1000V shall be used. These cables shall be heavy-duty class, PVC insulated and PVC sheathed with aluminium/copper conductors. The wires used in the lighting installation shall be PVC insulated and PVC sheathed copper wire/aluminium wire in case of conduits wiring and of 660V grade. Wires of different colours shall be made use of for quick\ identification of phase wire / neutral wire etc. All cable of wires shall comply with the requirements regarding 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 are only indicative and the Successful tenderer will be paid for the exact length of cables laid at site. No joint shall be allowed in a run of cables, which can be covered by a possible drum length of cables.

Fuse switch / switch fuse shall be metal clad dust and vermin proof suitable for use under climatic conditions prevailing at site. Switch fuse / fuse switch units shall comply in general to IS:1567/4064 with regard to design and constructional / features.

The ‘ON’ and ‘OFF’ position of the switch handles shall be distinctly indicated and interlocks shall be provided to ensure that the switch cover cannot be opened unless the switch is in the ‘OFF’ position. Means shall, however, be provided for releasing the interlock to permit closing of switch with cover open for testing purposes. Designs with normal 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 switch shall be properly surrounded and inter phase barrier shall be provided.

Switch fuse / fuse switch units, distribution boards shall be provided with necessary 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 as specified in the bill of quantities or drawings. Necessary supporting

metal frame of approved design shall be provided for all panel boards

The arrangements of work boards shall be such that the operational handle of the top mounted switches are within the convenient of operators (about 1.2 M from the finished floor level) and proper space shall be provided for the termination of the cable in the switches provided below the bus-bars.

The bus-bars within the bus-bar chamber shall be liberally spaced for taking the riser connection. The bus bars with aluminum conductors shall be provided and PVC sleeves of different colour shall be mounted on them for easy identification, Clamped joints for taking the riser connections, instead of bolted type shall be preferred.

Two bolted type earthing terminals shall be provided on the switch boards. All individual switches shall be connected with suitable size earth wire to the main earthing terminals of the switchboard.

Hanger Board and shock treatment / charts shall be supplied wherever required.

At the incoming side of each pen phase, 3-neon type indicating lamps should be provided at the main board.

Switches and Plug Sockets

Switches provided for control of light points shall conform to IS:1087 and shall be rated for 5A/15A 250V

Ceiling Fans and Exhaust Fans:

Ceiling fans shall conform to Indian standard specification IS: 374-1960. The fans shall be supplied with all standard accessories like regulator and capacitors etc.

The performances rating of the propeller fans shall in accordance with stipulations of IS:2312. All fans shall be robust in design and construction and shall be supplied complete with wall brackets / clamps etc.

Fluorescent Fittings:

All fluorescent fittings supplied shall confirm in general to IS:1913 and shall be complete with all standard accessories like choke, starter and capacitor etc

The type of enclosure provided for the fittings shall be of that specified in the bill of quantities and the working drawings. The materials of construction for fittings used for outdoor installations and for use in the work anodes shall be such that they shall withstand the atmospheric condition in that area.

Lamp holders used shall be fully shock proof, spring-loaded rotary type to ensure positive lamp locking. It should also be not possible to touch live parts of the lamp holder both 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 promote full lamp life. Starter shall have high mechanical strength and topic proof construction. It should be incorporated with radio suppression capacitor o adequate rating and\ capacity. Power factor improvement capacitors are provided with hermetically sealed housing to ensure long and trouble fee service. Terminal soldering tango shall be provided for easy electrical connections. The capacitors in general shall confirm to IS:1569-1963 and P.F improvement up to 0.95 for twin fluorescent light fittings and 0.9 for single fluorescent light fittings is to be maintained.

The ballast provided in the fluorescent fittings shall generally be in accordance to IS:1534.

The ballast should incorporate the following design features.

i) Low working temperature

ii) Correct pre heating current for the electrodes

iii) Proper wave foam

iv) Small in dimensions

v) Correct power supply to the lamp

vi) No hum.

vii) Easy connection leads.

All the metal construction of the fittings shall be such that they shall:

1) Withstand the atmospheric condition prevailing in the area

2) Provide maximum mechanical protection to the tubes and fittings accessories.

Assists in maximum and uniform light distribution.

All fittings shall be provided complete with florescent lamps. All lamps shall confirm to IS:2418.

Incandescent Fittings:

The incandescent fittings shall be supplied strictly as per the details given in the enclosed annexure and bill of quantities, deviation if any regarding design, construction of materials should be specified clearly.

All the metal parts used in construction of the fittings shall have no effect due to dust / fumes / gases likely to exist in the atmosphere. All the bolts , clamps, nuts and guard wire etc shall be galvanized.

The wall fittings shall be provided with necessary hooks / clamps / supports etc for fixing the light fittings on wall / ceiling etc as detailed in the bill of quantities and the working drawings.

Light fittings shall be suitable for connection with 19mm dia. Conduit pipe as required. If fittings are to be connected through PVC cables, glands of adequate size and capacity shall be provided.

The lamp holders provided in the fittings shall confirm to IS:1528.

C O D E S

Codes shall mean the following including the latest ascendants and / or replacement if any.

a) Indian Boiler Act, 1923 and Rules and Regulations made their under
b) Indian Electricity Act, 1923 and Rules and Regulations made there under
c) Indian Factories Act, 1948 and Rules and Regulations made thereunder
d) The minimum wages Act
e) The Women's Compensation Act
f) The Payment of Wages Act
g) The Fatal Accident Act
h) The Industrial Employment Act
i) The Employment provident Fund Act
j) Indian Explosive Act 1984 the Rules and Regulations made there under
k) Indian Petroleum Act 1934, and Rules and Regulations made there under
l) A.S.M.E. Test Codes
m) AIRE Test, Codes
n) American Society of Materials Testing Codes
o) Standards of the Indian Standards Institution
1) Low Tension Circuit Breakers : IS 2516-1955 Part I Sec.1
2) Switchgear Bus Bars IS 375-1963
3) HRC fuse links IS 2208-1962
4) Distribution fuse boards IS2675-1966
5) Enclosure for Low Voltage switchgear IS214701962
6) PVC Cables IS1554-1975
7) Tabular fluorescent lamps for Cameral lighting service IS2418-1963
8) Tungsten Filament Lamps for cameral service IS415-1963
9) Ceiling Fans IS274-1966
10) Flood lights IS1947-1961
11) Wall Glass flame-proof electric light fittings IS2206-1962 (Part 1)
12) Water Tight Electric Light Fittings IS3553-1956
13) Steel Boxes for Enclosure of Electrical Accessories IS5133-1969
14) Fittings for Rigid Steel conduit IS2667-1979

15) Rigid steel circuits for electrical wiring IS3837-1966
16) Accessories for Rigid Steel Conduits for Electrical Wiring IS3837-1966
17) Switch Socket Outlets IS3837-1966
18) PVC Wiring IS694-1977
19) Switches for domestic and similar purpose IS3854-1966
20) PVC wiring IS694-1977
21) Call Bell and Buzzers IS2268-1966
22) Straight through joint boxes and leads sleeves or paper insulated cables- EID-0032-1964
23) Earthing IS3043-1966
24) Electrical Wiring installations IS732-1963
25) Switchgear IS3072-1965 (Part I)
26) Lighting protection IS2309 –1969
27) Public Address system IS1882-1962
28) Low Tension switch use units IS4064-1978
29) Code of Practice for Automatic FIRE ALAM system IS2189-1970
30) Specification for Heat Sensitive Fire Detectors IS2175-1977
31) Guide for Safety procedure in Electric work IS5216-1969
32) Rubber Mats for Electric works IS5424-1969

p) Other internationally approved standards and / or Rules and Regulations touching the subject matter of the contract.

TECHNICAL SPECIFICATIONS OF P.H. PORTION OF WORK

A) WATER SUPPLY & SANITARY INSTALLATIONS:

Materials of following standard manufacturers are to be used in the work. The contractor shall indicate, in the offer, the brand or make of the materials, for which the rates are quoted.

(a) Sanitary fixtures:

To be of best quality vitreous ware of porcelain.

(i) Indian water closet
(ii) Foot Rests
(iii) Wash Hand Basin
iv) Kitchen Sink Hindware/Parry
(v) Urinals Ware / Neycer/ ISI marked
(vi) Drain Board
(vii) Odisha Closet
(viii) European Water Closet & Low Level Flushing Cistern.

(b) C.I. High Level Flushing Cisterns : Sushila Industries Prabhat Iron Foundry/ East India Steel / I.S.I. marked. "

(c) H.C.I. Soil Waste Pipes: Confirming to I.S.I. 1729-1954, having I.S.I.Mark.

(d) C.P. Bath Room Fittings: Plaza/ / Jaquar I.S.I. marked & confirming to-latest ISS

(e) Brass Fittings : Shakti/Anupama /Luster/1.S.I.Marked.

(f) Gunmetal Valves : Anupama / Leader / B.S.I.S.I. marked.

(g) G.I. Pipes (Medium Class): Manufactured by TATA / JINDAL / B.ST. having I.S.I. Mark.

(h) Galvanized Iron fittings : I.S.I. marked C/R brand.

(i) Paints: Asian / Berger / Jonson/Confirming to I.S.S

(j) Cast Iron Manhole cover frame: Sushila Industries / Prabhat Iron Foundry / East India Steel make confirming to I.S.S. 7.26

(k) Stone Ware Pipes & Fittings : Manufactured by Odisha Ceramic Industries / Odisha industries / Keshab Ceramic confirming to I.S.S. Specification No.651 / 1980 {Grade A)

(l) P.V.C. (S.W.R.) & Manufactured by the Supreme Industries
P.V.C (Rigid.) Pipe/Fittings: Ltd., Bombay / Oriplast, Balasore Duroplast confirming to I.S. Specification No. 4985/81 (Class IV)

(B) BUILDING MATERIALS:

(a) Bricks:

Bricks shall be of locally available best quality kiln burnt. Bricks shall be well burnt, uniform deep red, cherry or copper colored, free from cracks and flows, well shaped, uniform in size, homogeneous in textures and shall omit a clear metallic sound when struck, bricks shall have a minimum crushing strength 75 Kg/Cm2 and shall not absorb water more than 20% by weight.

(b) Cement Mortar:

Mortar shall be well mixed to a uniform colour and consisting in the proportion as specified in the items of work. Sand shall be measured on the basis of its dry 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 required quantity that can be consumed within 30 minutes of adding water shall be mixed at one time.

(c) Cement:

Cement should confirm to IS-269/IS-455.

(d) Sand:

Locally available best river sand medium size.

(e) Coarse Aggregates:

The coarse aggregate shall be of hard granite stone and shall generally confirm to I.S. 389. Porous Coarse aggregate shall not be used. The aggregate shall be free from clay films and other adherent coatings. Aggregate containing clay films over the stone materials shall be thoroughly washed. The aggregate shall be from approved quarry and crusher broken. Course aggregates shall be composed of particles ranging between the sizes 2.36 to the maximum size as may be specified in the relevant item of work, within the range, the aggregates shall be well graded so as to produce a dense concrete.

(f) Reinforcements:

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

Mild steel bars shall confirm to I.S.;226/1962 standard quality or IS:432/1966 - Grade-l. Black annealed wire (Not thinner than 24 gauge for tying the reinforcements shall be used).

TECHNICAL SPECIFICATION FOR SANITARY & PLUMBING WORKS

(A) Sanitary ware & allied fittings :

1. General:

All Sanitary fixtures and their allied fittings, should be of first quality, manufactured by Hindustan Sanitary Ware / Parryware / Nycer, These should be approved by the Engineer-in-charge of the G.P.H. Wing before use.

2. Squatting Pattern W.C. (pan) (Odisha Pattern Closets):

The water closet shall be of vitreous China of specified size and pattern, with an integral flushing rim. It shall have the flushing inlet at the back. The Odisha closet should be of approved quality confirming to I.S.S.-2656 (Part-Ill).

The squatting type Indian Water Closet (Odisha Closet) shall be sunk in floor sloped towards the pan in a workmanship like manner. The closet shall be fixed on a proper cement concrete base of 1.3.6 proportion, taking care that the cushion is uniform and even, without closet, to receive the specified thickness of the floor finishing. The joint between the Closet and the P.V.C. (S.W.R) trap shall be made with W.C. ring and rubber lubricant and shall be leak proof.

3. Flushing Cistern :

The flushing of the Indian water closet (Odisha Closet) shall be done by C.I. or Polyaterine High Level low-level porcelain valve-less syphonic flushing cistern of approved brand and quality I.S.I. Marked and capacity as specified. The connection between the cistern and water closet shall be made by 32 dia O.I. flush pipe, made from G.I. Pipe (Light Quality) or 32 dia P.V.C, Pipe as specified in the tender schedule. The flush pipe with an offset should be fixed to wall by using C.I. Holder Bat Clamps. The capacity of the cistern should be 10 Ltrs. as per I.S.S. 15 Ltrs. In case of low-level cisterns. The Cistern shall be fixed on cast Iron or Rolled Steel Cantiliver Brakets (Bulltin type), which shall be firmly embedded in the wall, with C.C. 1.2.4. The Cistern shall be provided with 20mm dia P.V.C. Overflow Pipe with fittings, which shall terminate into mosquito proof coupling secured in a manner that will permit it to be readily cleaned or renewed.

The 32mm dia Flush Pipe shall be connected to the Water Closet by means of approved type joint. The Flush Pipe shall be fixed to wall by using C.I. Holder Bat Clamps. 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 bitumen paint. The Outer face of the Cistern, Brackets Overflow pipe and Flush Pipe etc., shall be painted with two coats of any synthetic enamel paint of approved shade and make, over a coat of priming. The cost of the rate quoted for the flushing cistern.

The inlet connection to the Cistern shall be made with 450 mm 1 cmg 15 mm dia P.V.C. Heavy type connection Pipe.

4. Wash Hand Basin:

The Wash Hand Basin shall be of the White Vitreous China of approved quality, make and brand I.S.I, marked. It shall be one-piece construction with an integral combined overflow. The size of the basin shall be as specified. Each basin shall be provided with one 15 mm dia C.R Brass Pillar Tap, 32mm dia C.R Waste, C.R. Chain and Rubber Plug, Unions, Joints, C.P Bottletrap cast complete in all respects of approved quality.

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

The waste of the Basin shall discharge into a floor trap or Channel through bottle traps as specified. One 32mm dia C.P. Bottle Trap is to be fixed to the Waste of the Basin & the outlet of the bottle trap is to be connected to the waste pipe to discharge 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 Heavy type P.V.C. connection pipe.

5. Kitchen Sink:

Unless otherwise mentioned the Kitchen Sink and drain board (if used) shall be of white 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 combined overflow. The size of the sink and Drain Board shall be as specified.

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 in all respects as specified and of approved quality.

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

6. Standing Urinals :

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

Where no. of Urinals are fixed in a line, the distance between the centres to centre of each Urinal shall be kept 750mm. and each Urinal should be separated from one to other by a partition plate. The centre to centre of partition plates shall

be kept 750mm 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 wall with cement concrete and finished smooth. The bottom of the partition plate should be kept 350mm above floor level and top should be kept at 1250mm above floor level. The plates should project 600mm from wall surface. The width of the plates to be embedded inside the wall should not be less than 100mm. The thickness of the plates shall be minimum 25mm.

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 and jointed with Jute and putty where as the other end is connected either with a Tee or Bend with the 25mm dia size Water Pipe Line fixed on the wall horizontal above the Urinals. In each 20mm dia flush pipe one 20mm dia cum-metal Gate value, the water will flow to thermal of Urinal through the inlet pipe and flush the Urinal. After flush, 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 Waste into the Channel of Trap. One end of this Waste pipe shall be made a cup size to fit into the projected waste and tightened with screws.

7. Squatting Urinal Plates:

The Urinal Plates shall be of White Glazed Vitreous China with integral flushing rim of size 450 X 350mm of approved make and brand as specified. There shall be white vitreous channel with stop and outlet pieces in front. These plates shall be fixed on C.C. at 75mm to 100mm above floor level.

For flushing arrangement, one 25mm dia G.I. Common Water Pipeline (minimum size) 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 of each 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 shall be taken downward and connected to the inlets of the urinals plate at floor level. By operating the valve as above, the water will rush into the rims of the urinal plate and flush it.

Where there are number of urinals fixed in a line, each urinal should be separated by a partition plate fixed in the centre of two urinal plates. The centre-to-centre distance of the partition plates shall be kept 750mm.

The partition plates shall be of one-piece marble plate, 25mm thick, cut to sizes and front corners rounded. The plates are to be embedded in wall with cement concrete and finished smooth. The bottom of the partition plates shall be kept flushed to urinal top level and the top level of partition plate shall be kept at 1200mm from the urinal plate top and the projection from the wall shall be 600mm. The width of the plate to be embedded inside the wall should not be less than 100mm.

(B) Soil and waste pipes and fittings

1. H.C.I. Pipe Fittings

The Cast iron Soil, Waste and design pipes (spigot & socket joints) shall be of make and 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 fittings shall be free from cracks, laps, pinholes, and other imperfection and carefully cited.

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

WEIGHT OF HCI PIPES

2. **Dia of Pipe in mm Thickness in mm Length of pipe & width piece**

1.8mtr.	D/s 1.8mtr.			
50 mm	5mm	16.00kg.	15.00 kg.	
75 mm	5mm.	13.83kg.	16.52kg.	
100 mm	8mm	24.00kg.	22.00kg.	
150mm	8mm	26.70 kg.	31.82kg.	Tolerance 10%

3. The jointing should be done with pig lead confirming to I.S. 782-1966 - grade 99.94.The spigot and of Pipes and Fittings should enter into the socket end. The annular space shall be packed with spun yarn gasket, compacted so as to leave a depth for receiving required quantity of lead in a continuous pouring from ladder. After pouring lead in the joints in full, caulking is to be done three times round with the caulking chisels, so that the joints may be sealed with lead. The depth of lead in a point should be 35mm and the rest depth of the joint should be packed with spun yarn Gasket.

4. Requirement of lead and Gasket cement for jointing H.C.I. Pipes (Each Joint)

Dia of pipe in mm.	**Lead in kg.**	**Gasket in kg.**	**Cement kg.**
(same for lead & cement joint)			
100	1.2kg.	0.13kg.	0.12kg.
50 0.	36 kg.	0.06 kg.	0.06 kg.

5. The inside of the pipes and fittings shall be well coated with special tar or bitumen solution 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 of black anticorrosive paint of approved quality.

On completion of the work, the exposed pipes and fittings are to be painted with two coats of synthetic enamel paint of approved colour & quality over a coat of red oxide primer. The cost of paint should include in the rates.

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

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

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

9. All the soil and waste pipes and fittings, after laid and fixed shall be smoke tested, to the entire, satisfaction of the Engineer-in-charge. The Cost of testing is to be included in the offer. For smoke-test the materials usually burat greases cotton waste, which gives out a clear pungent smoke, which is easily detected by sight and small. Smoke shall be pumped to the drains from the lower end from a smoke machine, which consists of lower, and burner.

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

9.01 The P.V.C. (S.W.R.) and P.V.C. (Rigid), soil Waste & Vant Pipes (Spigot & Socket, & couples joints), shall be of make & brand as specified (Under Specification of materials) confirming to I.S.S., B.S.S. & DIN are tube used.

The main specification of P.V.C. Soil & Waste pipes and fitting are as below.

a) Materials – Un-plasticized Poly Vinyl-Chloride (UPVC).

b) Color - Grey

c) Dimensions -

(i) Diameter - Fittings - 75mm/110mm/63mm & 63mm.
Pipes - 75mm, 110mm, on lengths of 3.or 6 mtr.

d) Wall thickness - Fittings - Minimum 3.2mm at any port.
Pipes - As per application
For Rainwater - 75mrn-1.8. to 2.2.mm, 11 Omm-2.5. to 3mm
Waste & Soil - 75mm -1.8 to 2.2mm, 110mm -2.5 to 3 mm,
63mm –
Underground drainage with
light/NIL Traffics - 110mm - 2.5 to 3mm
Light/Nil in Heavy traffic - 110mm 3.7 to 4.3mm

e) Standard Confirming to Attributes Confirms to Standard No.
i) Fittings & Wall B.S.4514, DIN 10531
Thickness - DIN 19534 I.S.7834 - PVC (Rigid)
ii) Pipe Wall thickness - IS 4905
iii) Rubber ring - IS 5382
iv) Fitting dimensions - DIN 19531 - P.V.C.,
DIN 19534-S.W.R.
IS - 7834 V.C. (Rigid)
v) Pipe Dimensions - IS 4985

(a) Laying instructions & Jointing Procedure

a-1 Jointing of P.V.C. (S.W.R.) Pipes & Fittings

Clean the outside of the pipes spigot and the inside of the sealing groove of the fitting. Apply the rubber lubricant, to the spigot end, sealing ring and pass the spigot end into the socket, containing sealing ring, until fully homed. Mark and position of the Socket edge with pencil on the pipe, then withdraw the pipe from the socket by approx. 10mm towards thermal expansion gap.

a-2. Fixing of the Pipes and fittings on wall surface.

P.V.C. pipes both (S.W.R.) & (Rigid), fixed on wall surface, are to be supported by P.V.C. pipe clips, specially made for these pipes, with horizontal runs, the pipe clips should be spaced at intervals of more than 10 times the outside diameter of the pines. In vertical lines the clips are to be spaced at intervals of one meter to a maximum of two Metres according to pipe diameter. •

a-3 Jointing of P.V.C. (Right) Pipe Fittings

Clean the Outside of the pipes and inside of the socket of a fitting of the inside of the couplers (where 2 plain ended pipes are jointed) of. Apply solvent cement solution, evenly and smoothly on the outer surface of the pipe end and inside surface of either the coupler of the socket and pass the pipe end into the socket of the 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 the coupler should be pushed to the end of other pipe and thus, both pipes are jointed.

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

The Walt/concrete slots should allow for a stress free installation, Pipes and fittings to be inserted into the slots, without a cement base, have to be applied first with a thin coat of P.V.C. Solvent cement, followed by sprinkling of dry sand (medium size). Allow it to dry. This process gives a sound base for cement concrete fixation, around the pipes/fittings while mending the damages.

a-5 Anti syphon age Pipes

All the antisyphonage pipes and fittings to be used are of 63mm. If these are not available 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 for both is same.

a-6 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 supplied and used should have a 50mm antisyphonage gent horn on the outlet side. All the Traps used with the closets, should be of the size 125mm X 110mm i.e. Inlet (Socket end) of 125mm & outlet (spirit end) of 110mm only.

a-7 Installation of Water Closet

Determine the correct Location of the P/S Trap & set on a firm base, relative to the floor finish by pouring concrete on a slab. Bedding can be carried out by pouring concrete 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. Apply rubber 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 of 125rnm socket of the trap.

a-8 P.V.C. (Rigid) Pipes and Fittings

63mm (O.D.) P.V.C. Pipes to be used for these work either in anti syphonage system or else where, should be of “Quick Fit” Pipes Class 2 (4kg. F/Cm2), Quick Fit, Pipes have one end socketted.

The P.V.C. (Rigid) fittings, such as 63mm elbow, 63mm equal Tees 110mm x 63mm reducer etc. used in the work, should be of injection-molded fittings.

a-9 One -’jointing rubber ring will be available, with each P.V.C. (S.W.R.) pipe and fitting and hence, the cost of therein will not be added in the joint.

10. Measurement

All pipes shall be measured not/length as laid or fixed and shall be measured over all fittings such as bends, junctions, traps etc. The length shall be taken along the counter line of the pipes and fittings. Fittings will be counted extra over.

11. Before fixing and painting, the pipe shall be tested hydraulically to pressure Q.4Kg/Cm2 for pipes under I.S.-1729/1964 and at a pressure 0.7 Kg/Cm2 for pipes under I.S. 3989-1970 without showing any sign of leakage, sweating of or her defect of any kind. The pressure should be applied internally and shall be maintained for not less than 15 seconds.

(c) Water Supply Pipes and Fittings:

1. Materials.

All galvanized Iron Pipes are to be of mild steel continuous welded, screwed tubes, medium quality confirming to I.S.S. and bearing ISI Marks manufactured by reputed 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., Ahemadabad and 'C' brand manufactured by Present Engineering works or equivalent best quality.

2. Laying of Pipes

The lay out of the mains and service pipe set etc., will be done in accordance with the drawings. The contractor is to mark out the exact position of the pipes and fittings at site and take approval of the Engineer In-charge, before taking up the work.

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

Dia of Pipe	Width of Trench	Depth of Trench
15mm to 50 mm	300 mm	600 mm
65mm to 100mm	450 mm	750 mm

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

Thrust or anchor blocks of cement concrete 1.2.4 in hard granite chips shall be constructed on all bends or branches to transmit the hydraulic pressure without impairing the ground and spreading it over a sufficient area. Pipes shall not be laid to pass through manholes, catch pit, drain, where, it is unavoidable the pipes shall be carried in sleeve pipe of M.S./G.I., as approved by the Engineer-in-charge. The rate should include such a situation.

4. Where Pipes run along walls, the same are to be fixed to the wall with holder bat clamps /M.S. Hooks as below:

Dia of pipe in mm	15	20	25	32	40	50
Horizontal line	2m	2.50m	2.50m	2.50m	3m	3m
Vertical line	2.5m	3m	3m	3m	3.5m	3.5m

Where the pipes are passing through the R.C.C. / Masonry wall / Column / beam or pillars, these must pass through the appropriate higher sizes of C.I/G.I Sleeve Pipes and are to be included in the rates.

In case the pipes are embedded in walls and floors it should be painted with one coat of anticorrosive paint of approved quality. ,

All pipes should be fixed horizontal and vertical. For taking the pipes through the walls and floors & roof slabs etc. the holes shall be made by filling with chisels or jumper and not by dismantling the brickwork or concrete. After fixing, the holes shall be made good with cement concrete 1:2:4 and properly finished with C. Plaster 1.4 to match the adjacent surface.

Union Nuts are to be provided in each of the vertical riser or drop on and from G.I. Tank and near the Valve and as and where necessary.

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 working condition of pressure and flow. Any joint found leaking pipes should be removed and replaced without extra cost. The pipes and fittings after they are laid shall be tested to hydraulic pressure of 6 Kg/Cm2. The test pressure should maintain without loss of for at least half an hour.

6. Painting

On completion of the test, the exposed pipes and fittings are to be painted with two costs of synthetic enamel paint of approved color and brand over a coat of priming.

7. Measurement

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

8. Ball Valve

The ball valve shall be high or low pressure class as stipulated in the Tender Schedule and shall confirm to I.S. 1703-1968, The nominal size of ball valve shall be that corresponding to the size of Pipe for which it is used. The Bal valve shall be of brass or gun-metal and the float for low pressure polyethylene and for high pressure in copper.

Each and every ball valve while in closed position shall withstand and internally applied hydraulic pressure of 20 Kg/Cm2 for a minimum period of two minutes without leakage or sweating.

Every high pressure ball valve when assemble in working condition, with the float immersed to not more than half its volume shall remain closed against a test' pressure of 10.5Kg/Cm2 and a low pressure ball valve against a test pressure of 5.3 Kg/Cm2.

Polyethylene floats shall be watertight and non-absorbent and shall not contaminate water and with do jointing adhesive jointing parts.

The minimum thickness of the copper sheet used for making copper floats shall be of 0.45 mm. The thickness of materials of the float shall be uniform throughout.

9. Ferrule

The ferrules for connection with C.I. main shall generally confirm to I.S. 2692-1964 and shall be of nominal bore as specified. The ferrule shall be fitted with 3 screw and 1 plug or valve capable of complete cutting off the supply to the connected pipe as and when required. For fixing the ferrule, the C.I. main shall be drilled and tapped 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 projecting within the main on which it is fitted. After the ferrule is connected, one C.I. bell mouth cover or with bricks (as specified) shall be kept over the ferrule to cover the ferrule to protect it and the cost thereof is to be included in the item, even if there is no mention.

10. Non-return Valve (Check Valves)

The non-return valve shall be of Brass or Gunmetal and shall be of horizontal or vertical flow type and of the size as specified and confirm to I.S. 7810-1959 and I.S. 778-1957. The approximate weights of the valves are given below.

Dia in mm	Horizontal type (in kg)	Vertical type (in kg)
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
	±Tolerance 5%	

11. Foot Valve

Foot valve is generally placed at the lower end of the suction pipe of the centrifugal pump to prevent the suction pipe from empting. On vertical non-return valve may also be fixed in place of foot-valve.

The foot valve shall confirm to I.S.038-1967.

12. Water meters (Domestic types)

Water meter up to 50m nominal size shall confirm to I.S.-779-1968.The meter body shall be of bronze/ Gun-metal and marked to read in liters complete with registration box and lid. The water meters shall be provided with Strainers. Strainers shall be of material, which is not susceptible to electrolyte, clean and shall be fitted on the inlet side of water meter. It shall be possible to remove and clean the strainer and not permit disturbing the registration box. The offer should include the same. The water meters shall bear ISI Mark.

13. Bibcock & Stopcock

These shall confirm to I.S.781-1967 and bear ISI Mark. The bibcock is a draw off tap with a horizontal inlet and free outlet and stopcock is a valve with a suitable means of connection for Insertion in a pipeline for controlling or stopping the flow. This shall be of screw down type. The cock shall open in anti-clockwise direction. The stopcocks should be of C.P open type/concealed type/angle valves type as specified in tender schedule. Bibcock should be also C.P Brass bibcock.

14. Full way Valve (Brass)

Full way valve is a valve with suitable means of connection for insertion in a pipeline for controlling or stepping the flow. The valve shall be of brass fitted with a cast-iron wheel and shall be of gate valve type confirming to I.S, 780-1960, opening Full way and of the size as specified.

Dia in mm	Flanged End Valves in kg	Screwed End Valve in kg
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. Gun Metal Full way Valve

This shall be of the Gun-Metal fitted with wheel and shall be of Gate-Valve type opening full way. This shall confirm to I.S, 778-1971. Class I. The Valves should bear ISI Mark

TECHNICAL SPECIFICATION FOR STONEWARE PIPE ETC.

1. Stoneware Pipes (Materials)

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

Internal dia of Pipe in m.m.	Thickness of the Barrel in m.m.	Weight of each pipe in kg.
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

The length of pipes is 600mm exclusive of the internal depth of socket.

2. Excavation of Trench for laying Sewer Pipes

The trenches for the pipes shall be excavated to the lines & level as directed. The bed of the trench shall have to be evenly dressed throughout from one change of grade to the next. The gradient is to stout by means of sight rails and boning rods and required depth be excavated at any point. The depth of the trench shall not less than one meter, measured from top of the pipe to the surface of the ground under roads and not less than 0.75mm elsewhere. The width of the trench shall be the nominal diameter of the pipe plus 350m. The bed of the trench if in soft or made up earth, shall be well watered and rammed before laying the pipes and the depressions if any shall be properly filled with sand and consolidated in 200mm layers. Depending on soil condition, piling may even be necessary if so desired by the Engineer In-charge. If rock is met with, it shall be removed 150 mm below the level of the pipe and the trench will be refilled with sand and consolidated.

The excavated materials shall not be placed within One Mtr. or half of the depth of the trench whichever is greater from the edge of the trench.

The trench shall be kept free from water. Shoring and shuttering shall be provided wherever required. Excavation below water label shall be done after dewatering the trenches.

After the excavation of the trench is completed, foundation of cement concrete 1.4.8 in hard granite metal (size 40mm) shall be laid with proper level all along under the length of the pipe with launching on all around concrete as per drawing.

3. Laying, Jointing, haunching of the Pipes and fittings.

Drain Pipes (S.W. pipe & other pipes used for drain and Sewer) shall be laid in straight lines and to the even gradients as shown in the layout drawings.

The socket and of the pipes shall face stream. Adequate care shall be exercised in setting out and determining the level of the pipes and the contractor shall provide suitable instruments, templates, sight rails, boning rods and other equipments necessary for the purpose. In the case of pipes with joints to be made with loose collars, the collars shall be slipped on before the next pipe is laid. In those joints, a tight ring of twisted tarred jute soaked in cement mortar filling to ensure proper alignment and prevent. Cement entering the pipes, Cement compound joints is to be finished with proportion 1.1 with 45 beveling. The joints are to be kept wet with wet bag until the same are properly set with. The cement mortar joints shall be cured at least for 7 (Seven) days.

In the case of S.W. Pipe joints (socket & spigot), they should be caulked first with tarred jute (Spun) of required diameter, almost quarter depth of the socket, after which cement mortar 1:1 is pushed in with wooden chisel and finishing beveled at outside at 45 degree. Instead of jute of hump rubber gasket of proper size may also be used. The whole joint must be cured for not less than three days. In case of pipes less than 250m dia, joints should be made at ground level with three pipes at a time and for larger ones two pipes at a time and after curing they should be soiled in foundation with the help of the ropes. All pipes should be properly launched with cement concrete 1.3.6 with washed gravel where the pipes are crossing the drain or all round concrete 1.3.6 with washed gravel is to be done to 150 mm thick over the barrel of the pipe.

The whole of the drain work shall be tested when laid, and at the completion of the contract, to the satisfaction of the Engineer-in-charge and shall be retested if necessary until found satisfactory. The test shall be made by means of water under pressure at the highest point of the Section under test and providing an air pipe at the lower and of the line. Maximum head of 5 (five) fact (1.5m) must be maintained.

4. Excavation and refilling.

Excavation for drain and pipe trenches shall be straight and to correct depth and gradient. The trench bottom shall be of required width as per specification to allow working space for pipe jointing.

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 the excavated area, during construction.

The contractor at his own expense shall pump out or otherwise remove any or all water which during the continuance of contract may be found in the excavated trenches to keep the trench clear of water during the work under progress.

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

5. Buried Services

All pipes, cable mains and other services exposed by the excavations shall be effectively supported by timbering or other means for which no extra payment will be allowed. The contractor shall be responsible for any damage occurring to burried services and make good the same at his own cost to the satisfaction of the Engineer-in-charge.

6. Trench condition :

Where a trench is excavated and refilled after laying the pipe, settlement of the earth in the refilled trench take place. The filling above the top of pipe, settles relatively, more than the sides of the trench, thereby developing frictional resistance. The contractor is required to take special precaution against this, while refilling the trenches. Procedure for backfilling as stipulated earlier should be strictly followed.

7. Inspection Chambers/Manholes

At every change of alignment, gradient or diameter of a drain there shall be a manhole or Inspection Chamber. The maximum distance between man hole chamber shall be 30 metres for the linelaid straight.

All manhole and inspection chamber shall have internal dimension as shown in drawing and B.O.Q. The depth of invert shall be fixed to the gradient.

The foundation for Manhole shall be 175mm thick & with cement concrete 1.3.6 in hard stone metal / granite metal of 40mm size. The concrete shall project 150mm beyond the external faces of the brickwork.

The brick masonry shall be done in cement mortar in the proportion of 1:4 and thickness of the brick wall should be 250mm thick up to 1200mm depth from Ground Level and beyond that the wall thickness shall be maintained 375mm.The inside surface of the walls of the chamber, shall be finished with cement plaster 1.3 and out side with cement pointing 1.3. In addition to this, the inside surface should also be provided with cement punning.

On the top of base concrete channeling on C.C. 1.2.4 with granite chips is to be done keeping the diameter equal to the dia of drain pipe and depth equal to half of the dia of pipe. The channel, 'should1 be done longitudinally at the centre, connecting both the ends of the pipe. The channel is to be hunched up with concrete 1.2.4 with hard granite chips of size 12mm sloping upwards from the edge of channel to meet the side of chamber at gradient of 1.6. The channel and benching are to be finished smooth and cement mortar 1.3 and punning unless it is unavoidable. The branch

should deliver sewerage in the Manhole in the direction of main flow and the junction must be made with care so that the flow in the main is not impeded. Channels for drains coming from the side of the Manhole Chamber, shall be curved to meet the main drainage channels.

The Manhole and Inspection Chambers shall be covered with R.C.C. cover slab of thickness 100mm to 150mm according to the requirement at site. One C.I. Manhole cover of diameter and weight as stipulated in the tender schedule shall be fixed, on the cover slab. Unless otherwise mentioned the C.I. Cover and Frames and shall confirm to I.S. 1726/1960. Heavy duty covers etc., under heavy vehicular traffic condition and capable of bearing wheel loads up to 11.25 tons, are to be used and medium duty under light type wheel traffic loads and light duty for domestic premises are to be used. Covers and Frames shall be clearly cast, double water seal type and they shall be free from all and sand holes. The cover shall be gas tight and water tight with proper water-seal. The C.I. Cover and frame shall be coated with two coats of black bituminous paint. The frame of Manhole cover shall be fixed on the slab while the slab is cast. R.C.C.M.H. covers of 50cm dia and 100mm thickness shall be fitted in line of C.I.M.H. cover if stipulated in the bill of quantity of the tender schedule.

8. Gully Trap Chamber

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 size 40mm 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 outside should be done in cement mortar 1.4 cement punning should be provided on the inner surface the trap should be burried in cement concrete 1.2.4 in H.G. chips up to the mouth and one hinged C.I. Grating of size 300mm x 300mm are to be fixed on the top of mouth of Gully trap to arrest rubbishes shall be provided. The foundation, should project 75mm from outer.

9. Kota/Marble Stone flooring

The Kota/Marble stones shall be of thickness specified but not less than 20mm and of uniform 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 butt against each other truly so as to came the joints practically invisible and certainly not more than 0.8mm in width any where. The joints shall not be filled with mortar but may afterwards be grouted with neat white cement mixed with matching colour pigment. When the floor has completely set, it, should be polished with pumice stone and finally with pads of felt.

10. Glazed tile dado

The glazed porcelain tiles shall be of approved size and thickness 5mm to 6mm with edges absolutely straight & surface accurately plain. They shall be fixed in 6mm. thick cement mortar 1.3 using cement slurry over pre-cement plastered base. The sides of the tiles shall be arranged to but against each other truly so as to make the joints practically invisible. However, the joints may be granted with white cement mixed with colouring materials to match the tiles and neatly cleaned leaving no trace of excess grouting materials. The tiled surface and edges should be perfectly vertical and straight. The corner points must be normally right angled unless the site condition demands otherwise,

ADDITIONAL APPENDIX TO BILL OF QUANTITY:

(For P.H. Items of Work)

1. The quantities of items mentioned in the tender schedule may increase or decrease during execution of works but the contractor will complete the work as per his tendered rates in accordance with the instruction of Engineer in charge of G.P.H. wing.

2. **Specification:** The standard PHD and PWD specification will be followed for execution of work. During the course of execution of work, the instructions of the Engineer in charge shall be final and binding.

3. The Sales Tax element should not be added to the analysis of rates and the previous 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 any additional claim on account of Sales Tax on completed works which will be deemed to be recovered by existing omnibus stipulation as per the works Department letter No.TIT 22/89-18170 dt. 18.7.89/

5. It is the responsibility of the Contractor to arrange watch and ward to the installations until testing commissioning and handing over for which no extra payment towards watch and ward will be paid,

6. The contractor shall maintain a separate site order book for P.H. portion of work.

7. The P.H. portion of work shall be open for inspection by the authorities of ITDA, Malkangiri and the higher authorities and instructions imparted during the course of Inspection should be binding on the contractor.

8. Materials not covered by any of the above categories of items in the bill of quantity have to be approved by the competent authorities before utilizing the ‘same in works. In such event, the payment of such item will be made as per actual on due approval by the competent authority.

9. All materials required for the work shall be supplied by the contractor as per standard specifications appended with due approval by the Engineer in charge of G.P.H. Wing.

In case the materials as per make specified are not available, the materials of equivalent make and as per I.S. Specifications or of best quality when not covered by I.S. Specifications. Can be utilized on prior approval of AEE/ JE in charge of ITDA or the officers duly authorized by him.

It is binding on the part of the contractor to use such items of materials which are available in the Departmental store and in such case the deduction from the bills will be made at stock issue rates.

SPECIAL CLAUSE

a) All stock and store materials like cement, steel, Maxphalt paints etc, are to be arranged and supplied by the contractor himself as per I.S. specification subjected to approval quality by the Engineer-in-charge.

b) No monetary claim or compensation of any kind what so ever will be entertained by the Department nor this can be termed as a plea by the Contractor to apply for extension of time to complete the work (This has been given effect form-1-4-96)

The machineries as and when required for execution of work should normally be arranged and supplied by the contractor himself. However machineries may be considered for supply by the Department on pre-requisition of the contractor in writing not less than one month before the date of engagement subject to availability of machineries in good condition in the department. at the discretion of the Divisional officer and at the hire charges fixed by the department from time to time.

c) No cement will be supplied by the department and the contractor has to procure cement of approved quality as specified in the agreement at his own arrangement and produce the cash vouchers in support thereof in token of actual transaction without scope for reimbursement of extra cost involved if any.

d) Payment will be made on receipt of bills in complete shape by the authority subject to availability of funds under respective head of account. The department is not liable for payment of any compensation for delay in payment of running /final bill. Non payment of bills due to contingency if any, during the course of execution of works shall not be treated as a bar for suspending the work.

e) The work is to be completed within the time limit prescribed in the Call Notice. The agreement will stands cancelled on the last day of the financial year. NO extension of time to this effect will be granted beyond last date of the financial year. Additional performance security shall be deposited by the bidder as per office Memorandum No. 14299 Dated. 03.10.2017 of Works Department.

Sd/-

Project Administrator
ITDA, Malkangiri

Total :- **57 (Fifty seven)** pages only

APPROVED for 57 (Fifty seven) **pages only**

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Project Administrator
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