

**BID IDENTIFICATION NO: - ANGL-02/2019-20**

**GOVERNMENT OF ODISHA**

**PANCHAYATI RAJ DEPARTMENT**



**PANCHAYAT SAMIT, ANGUL**

**DETAILED TENDER CALL NOTICE**

**NAME OF THE WORK: - Installation of External Electrification Work at Purunakot U.P School.**

**ESTIMATED COST: - Rs. 4, 11,960.00**

**GOVERNMENT OF ODISHA**  
**PANCHAYATI RAJ & D.W DEPARTMENT**  
**INVITATION FOR BIDS (IFB)**  
**IDENTIFICATION No: - ANGL- 02 / 2019-20**  
**E-mail address: - ori-bangul@nic.in**

1. The Block Development Officer, Angul on behalf of the Governor of Orissa invites Percentage rate bid(2<sup>nd</sup> time) in single cover system for the works as detailed in the table below, from the class of eligible contractors as mentioned in Col.4 (four), registered with the State Government and contractors of equivalent grade / Class registered with Central Government/ MES / Railway, to be eventually drawn up in PWD P-I form, for execution of Building. The proof of registration from the appropriate authority shall be enclosed along with the bid. If successful, the bidder who has not registered under State Government has to register under the State PWD in appropriate class of eligibility before signing the agreement. Bidders may submit bids for any or all the following works.

Sl. No	Name of works	Approx. Value of the work(in lakh)	Class of contractor	Bid Security (In Rs.)	Cost of Tender Paper (Non-refundable )	Period Of Completion.
1	2	3	4	5	6	7
1	INSTALLATION OF EXTERNAL ELECTRIFICATION WORK AT PURUNAKOTE UPSCHOOL, PURUNAKOTE .	4.11	H.T	4200.00	Rs. 4000.00	3 Calendar Months
2	INSTALLATION OF EXTERNAL ELECTRIFICATION WORK AT MAJHIPADA SEVA SHRAM SCHOOL, TIKARPADA.	3.88	H.T	3900.00	Rs. 4000.00	3 Calendar Months
3	INSTALLATION OF EXTERNAL ELECTRIFICATION WORK AT TIKARPADA HIGH SCHOOL, TIKARPADA .	4.16	H.T	4200.00	Rs. 4000.00	3 Calendar Months
4	INSTALLATION OF EXTERNAL ELECTRIFICATION WORK AT BAGHAMUNDA ASHRAM SCHOOL, KOTHABHUIN.	3.94	H.T	3900.00	Rs. 4000.00	3 Calendar Months

2. Bid documents consisting of plans, specification, the schedule of quantities and the set of terms & conditions of contract and other necessary documents can be seen in the office of the Panchayat Samit, Angul during office hours every day except on Sunday & Public holidays till last date of sale and receipt of tender paper. Interested bidders may obtain further information at the same address.
3. Bids must be accompanied with E.M.D. (Bid Security) of the amount specified for the work in the table at Col.5 above in shape of N.S.C./K.V.P./P.O.T.D / Post Office Savings Pass Book / Deposit receipt of any Scheduled Bank (Valid minimum one year from the date of receipt) duly pledged in favour of Block Development Officer, Angul. Bids without E.M.D. or in other shape will not be considered and liable for rejection.

**N.B:- E.M.D. in shape of Cash / Pay Orders or Bankers Cheques / Bank Draft is not acceptable.**

4 The sale of the bid document shall start from dt .24. 07. 2019 in the office of the Block Development Officer, Angul during office hour. The cost of bid document as mentioned in col. No-6 has to be paid by each bidder in shape of demand draft drawn in favour of Block Development Officer, Angul from any nationalized bank. Sale of bid document will be closed at 1.00 P.M on dt. 30.07.2019. Bid document will be received on dated 31.07.2019 from 10.00A.M to 1.00P.M. in the office of Block Development Officer, Angul. The bid document may also be download from website [www.angul.nic.in](http://www.angul.nic.in) during this period. The intending tenderers downloading the tender document has to pay the cost of tender paper for each set Rs.10,000/-in shape of bank draft payable at SBI, Angul in favour of Block Development Officer, Angul.

5. Bids must be delivered in the Tender box having identification No. **ANGL- 02 / 2019-20** kept in Angul Block, for the purpose.

6. Bidders shall submit original affidavit regarding authenticity of their documents and 1 %( One Percent) E.M.D. along with their bids. Bids shall be accompanied with attested true copy of valid registration certificate, GSTIN and PAN card, otherwise his/her bids shall be declared as non-responsive and thus liable for rejection. The original certificates of the lowest bidder are to be produced before Block Development Officer, Angul for verification.

7. Bidders can submit one tender paper for a particular work. Submission of more than one tender paper by a bidder for a particular work will be liable for rejection.

8. Engineering Contractor desirous to avail the facility of exemption of E.M.D. is required to submit affidavit to the effect that he/she has not yet availed the facility for more than two works during the current financial year, failing which his/her tender will be rejected.

9. The bid will be opened at 3.00 P.M. on dt. 31.07.2019 in the office of the undersigned, in the presence of the bidders or their authorized representatives, who wish to attend. If the office happens to be closed on the last date of sale and receipt / opening of the bids as specified, the bid will be sold and received / opened on the next working day at the same time and venue.

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

11. Additional performance security shall be obtained from the bidder when the bid amount is less than the estimated cost put to tender. In such an event, the only the successful bidder who has quoted less bid price/ rates than the estimated cost put to tender shall have to furnish the exact amount of differential cost i.e estimated cost put to tender minus the quoted amount as Additional Performance Security in shape of Demand Draft/Term deposit Receipt pledged in favour of Block Development Officer within 7(seven) days otherwise the bid shall be cancelled and the security deposit be forfeited. Further proceeding for blacklisting shall be initiated against the bidder.

12. For building and other Construction Workers Welfare Cess @ 1% (One Percentage) of the cost of construction shall be deducted from bills.

13. Other details can be seen in the bidding documents.

14. The undersigned reserves the right to cancel/reject in partly/fully or all tenders without assigning any reasons thereof.

**Block Development Officer  
Angul**

## **DETAILED TENDER CALL NOTICE FOR WORK**

2. Sealed percentage rate bids are invited in single cover system from "MV" class contractors registered with the State Government and contractors of equivalent Grade / class registered with Central Government / MES / Railways for execution of civil works on production of definite proof from the appropriate authority. But successful bidder other than State / MES / Railways / CPWD in equivalent rank has to register under the State PWD before signing the agreement in prescribed form to be eventually drawn in P.W.D. FORM P1 for the work **"INSTALLATION OF EXTERNAL ELECTRIFICATION WORK AT PURUNAKOTE UPSCHOOL, PURUNAKOTE**

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3. The sale of the Bid document shall start from dt. **24.07.2019** and close on dt **30.07.2019** at **1.00 PM**. Bids must be delivered in the tender box having identification **No-ANG L-02/2018-19** kept in Angul Block for the purpose. The bid documents will be received on dated 31.07.2019 from 10.00 A.M to 1.00 P.M in the office of Block Development Officer, Angul.

4. The tender will be opened by Block Development Officer, Angul. in the office of the **Panchayat Samit, Angul** at 03.00 AM on dt. **31.07.2019** in the presence of the bidders or their authorised representatives who wish to attend.

5. Bidding documents requested by mail will be dispatched by registered / speed post on payment of an extra amount of **Rs.500.00** (Rupees five hundred) only over the cost of the document. The Block Development Officer will not be held responsible for the postal delay if any, in the delivery of the documents or non-receipt of the same.

6. The tender is to be submitted in single cover. Cover is to contain EMD, signed DTCN, and attested copy of registration certificate, PAN card, GSTIN, P.E & ESI certificate, labour license, duly filled-in and documents required as per the relevant clauses of this DTCN, Bills of quantities and special conditions if any. The cover is to be sealed and super scribed the name of work. In order to ensure that the envelopes are properly sealed, the contractor can seal them with superglue and also add tamperproof tapes as additional precaution. The tenderers are **not** required to write their name on the outer cover containing the bid documents. They are only required to write the name of the work and authority who had issued the tenders. The tender submitted in the wrong box shall not be taken in to consideration.

7. The bid must be accompanied by security of the amount @ 1 % (One percent) of the estimated cost put to tender along with tender in the form of Deposit receipt of Schedule Bank / Kissan Vikash Patra / Post Office Savings Bank Account / National Savings Certificate / Postal Office Time Deposit Account duly pledged in favour of the Block Development Officer, Angul and payable at Angul as per the terms and conditions laid down in OGFR and in no other form. Bidders desirous to hire machineries or equipments from out side the State are required to furnish 2% (Two percent) of the amount put to tender, i.e Rs. 1358.62 (Rupees thirteen hundred fifty eight and six two) only in form of above shape and as per the above terms and conditions. Tenders not accompanied with EMD as specified above shall be liable for rejection.

N.B.:- Bank draft! Pay orders or Banker's cheque from any schedule bank in favour of Executive Engineer shall not be considered as E.M.D.

8. The original certificates are to be produced only by the successful L1 bidder subsequently before Block Development Officer, Angul within 5 days of opening of price bid. The **Engineer contractor** (in case of lowest successful bidder) must produce original affidavit towards exemption for entering the exemption of E.M.D. before drawal of agreement otherwise his/her bid shall be declared as non-responsive and thus **liable for rejection**. Tenderer represented through Power of Attorney holder should ensure that the Power of Attorney is duly registered containing the **photographs** of both the license holder and the person to whom the Power of Attorney is given otherwise the tender will be **rejected**.

8. **Deleted.**

9. The work is to be completed in all respects within **3(Three) calendar month**. Tenderers whose tender is accepted must submit a work programme at the time of execution of Agreement.

10. All tenders received will remain valid for a period of **90 (Ninety)** days from the last date of receipt of tenders and validity of tenders can also be extended if agreed to by the tenderer and the Department.

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

12. 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.

13. 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 certified copy of the power or 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.

14. 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.

15. The work is to be completed in all respects within **3 (Three)** calendar months including rainy season from the date of issue of work order. Tenderers whose tender is accepted must submit a **work programme** at the time of execution of Agreement.
16. Submission of more than one tender by a bidder for a particular tender will liable for rejection of all such tender papers.
17. **In the case of Percentage Rate Tenders, only Percentage quoted shall be considered. Percentage quoted by the Contractor shall be accurately filled in figures and words, so that there is no discrepancy.**

**Amendment to Appendix – IX, Clause – 36 of OPWD Code Vol-II by inclusion.**

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

That if any discrepancy is found in percentage quoted in words and figures or the total rate quoted by the Contractor, the following procedure shall be followed:-

- (i) If any discrepancy is found in percentage quoted in words and figures, then the percentage quoted by the Contractor in words shall be taken as correct.
  - (ii) If any discrepancy is found in the percentage quoted in percentage excess / less and total rate quoted by the Contractor, then percentage will be taken as correct.
  - (iii) The percentage quoted in the tender without mentioning excess / less supported with corresponding amount does not tally with either to percentage excess or less then it will be treated as percentage excess.
  - (iv) The tender shall be written legibly and free from erasures, over writings or corrections of figures. Corrections, over writings & interpolations where unavoidable should made by making out, initialing, dating and rewriting.
  - (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) In the contract P1 time is the essence. The contractor is required to maintain a certain rate of progress specify in the contract.
18. 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.
  19. The offer of tender shall be inclusive of cost of construction and maintenance of island, ferry service, fair-weather road, service road, Foot Bridge, pylon base, which stand and derrick stand etc. as required for the work.
  20. It must be definitely understood that the Government does not accept any responsibility for the correctness and completeness of the trial boring shown in the Cross section.
  21. **Additional performance Security :**  
**Amendment to Para 3.5.5 (v) Note – II of OPWD Code Vol. I by modification**  
Note (II)-Additional performance security shall be obtained from the bidder when the bid amount is less than the estimated cost put to tender. In such an event, the only the successful bidder who has quoted less bid price/rates than the estimated cost put to tender shall have to furnish the exact amount of differential cost i.e. estimated cost put to tender minus the quoted amount as Additional Performance Security in shape of Demand Draft/ Term deposit Receipt pledged in favour of the Divisional Officer within 7 (seven) days otherwise the bid shall be cancelled & the security deposit be forfeited. Further proceeding for blacklisting shall be initiated against bidder.
  22. 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.
  23. The Contractors participated in the tender for more than one work may offer conditional rebate. Rebate offer submitted in separate sealed envelope shall be opened, declared, and recorded first. The rebate so offered 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 name and number of the works to which they refer, written on the envelope.
  24. Schedule of quantities are accompanied in bills of quantity. 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.

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.

25. The authority reserve to right to reject any or all the tenders received without assigning any reason thereof what so ever.

26. The earnest money will be retained in the case of successful tenderer and will be dealt with as per the terms and conditions of the O.P.W.D. code and will not carry any interest. The earnest money will be refunded to the unsuccessful tenderers on application.

**Amendment to Para 3.5.14 Note - I of OPWD Code Vol.-I by inclusion**

If L1 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. 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 publicized and intimated to all departments of Government and also to Govt. of India agencies working in the State.

27. **As per Works Deptt. O.M. No. 16 dt.1.1.2015.**

Notes- (iii) of Para-3.5.18 – The single tender received in the first call shall be cancelled without opening of **the bid. The acceptance of a single tender received, even after re-tendering should have prior approval of the next higher authority.**

**Rule – 29 of Appendix-IX – When in response to a notice calling for tenders, only a single tender is received in the first time, the tender shall be cancelled without opening of the bid and fresh tender be invited publicity. If single tender is received, even after re-tendering then the approval of the next higher authority should be obtained, if the tender is otherwise in order and acceptable.**

28. 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").

The notification of award will constitute the formation of the contract, Subject only to the furnishing of a performance security (Initial Security Deposit) in form of Deposit receipt of Schedule Bank / Kissan Vikash Patra / Post Office Savings Bank Account/National Savings Certificate/Postal Office Time Deposit Account duly pledged in favour of the Block Development Officer. Angul and in no other form which including the amount already deposited as bid security (earnest money) shall be 2% of the value of the tendered amount (excluding 1 % deposited towards hiring of equipments/machineries from out side the State if any) and sign the agreement in the PW.D. form No. F-2 (Schedule XLV No. 61) for the fulfillment of the contract in the office of the Block Development Officer. Angul 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.

The agreement will incorporate all agreements between the officer inviting the Bid 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 Block Development Officer. Angul. Following documents shall form part of the agreement.

**Amendment to Para 3.5.18 Note – viii of OPWD Code Vol-I**

**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 mile stone liquidated damage will be imposed.**

- a) The notice inviting bid 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 thereto & required amount of performance security including additional performance security.
- b) Standard P.W.D. Form P1 with latest amendments.  
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 money is deposited. The security will be refunded after Twelve months of completion of the work and payment of the final bill and will not carry any interest.

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 tenderers back out from the offer before acceptance of tender by the competent authority.

29. 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.
30. The contractor should be liable to fully indemnify the department for payment of compensation under workman Compensation Act. VIII of 1923 on any account of the workmen employed by the contractor and full amount of compensation paid will be recovered from the contractor.
31. Tenderers are required to abide by the fair wages clause as introduced by Govt. of Odisha. Works Department Letter No.-VIII-R 8/5225 Old. 26.02.55 and NO.IIM- 56/628842(5) Dtd.27.09.61 as amended from time to time.
32. 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 Block Development Officer. Angul 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 Block Development Officer. Angul is final and binding on the contractor.
33. 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, all other taxes, ferry, 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 tenderer for Collection of materials, storage, housing of staff or other purpose of the work. No tenderer will however be liable to pay Govt. for temporary occupation of land owned by Govt. at the site of the work.
  - 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.
34. After the work is finalised, 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 rates.
35. No payment will be made for bench marks, level pillars profiles and benching and leveling the ground where required. The rates to be quoted should be for the finished items of work inclusive of carriage of all materials and incidental item of works.
36. It should be understood clearly that no claim what-so-ever will be entertained to extra items of works quantity of any item besides estimate amount 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.
37. The tenderer 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.
38. 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 all the offices issuing the documents and office of the under signed during office hours everyday except on Sundays and Public Holidays till last date of sale and receipt of tender papers. Interested bidders may obtain further information at the same address. But it must be clearly understood that the tenders must be received in order and according to the instructions.
39. Tenderers are required to go through each clause of P.WD. Form F-2 (now name as P1) carefully in addition to the clause mentioned herein before tendering.

40. Deleted
41. Deleted
42. Deleted
43. Deleted
44. Deleted
45. Deleted
46. 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.
47. After completion of the work the contractor shall arrange at his own cost all requisite equipments for testing one unplugged well and specified span free of cost as directed by the Engineer-in-Charge and bear the entire cost of the test.
48. Deleted
49. Deleted
50. Deleted
51. **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, 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 authorised 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.
52. **1% / 2 %** or as amended from time to time of the gross amount of the bill towards income tax will be deducted from the contractor's bill.
53. GST at the rate prescribed by the Government will be deducted on the instructions of the Government.
54. 1 % of the gross amount of the bill will be deducted from the contractor's bill towards Cess as per the Building & Other construction Workers (RE & CS) Act.1996 & Building & Other Construction Worker Welfare Cess Act.1996.
55. 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 Block Development Officer 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.
56. 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.
57. **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 Block Development Officer. Angul.
58. Deleted
59. Deleted
60. Where it will be found necessary by the Department, the Officer-in-Charge of the work shall issue an 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 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 order Book shall be the property of the block. and shall not be removed from the site of work without written permission of the Engineer –in –Charge.) .
61. Over and above these conditions, the terms and conditions and rules and regulations and specifications as laid down in Odisha Detailed Standard Specification, Odisha P.W.D. Code, Bridge code and MoRT&H specifications with latest revision / amendment are also binding on the part of the contractor.
62. Any damages caused by natural calamities should be done by the contractor 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.
63. The rates quoted by the contractor shall cover the latest approved rates of labours, materials, P.OL and Royalties. Arrangement of borrow areas; land, approach road to the bridge site etc. are the responsibility of the contractor.
64. 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.



65. 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 authorised 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 far as possible regarding the quantities as well as the total amount claimed. The claim book must be submitted by the contractor regularly by 10<sup>th</sup> and 16<sup>th</sup> 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 book is 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.
66. Number of tests as specified in I.R.C.I MoRT&H 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.
67. Besides, the firm / contractor shall install full fledged field laboratory at work site for conducting required tests as per IRC / MoRT&H /151 requirements at his own cost for providing sufficient opportunity for checking from time to time.  
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.

After completion of the road in all respects the road furniture should be affixed by the executing agency indicating locations like school, hospital, No-horn etc.

68. Deleted
69. Deleted
70. 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
71. The information furnished must be sufficient to show that the applicant is capable in all respects to successfully complete the envisaged work.
72. In case the 1<sup>st</sup> lowest tenderer or even the next lowest tenders withdraw in series one by one, thereby facilitating a particular tender for award, then they shall be penalized with adequate disincentives with forfeiture of EMD unless adequate justification for such back out is furnished. Appropriate action for black listing the tenderers shall also be taken apart from disincentivising the tenderer.
73. **ADDENDUM TO THE CONDITION OF P1 CONTRACT**  
**Clause- 2(a) of P1 Contract: TIME CONTROL:**
- i) Progress of work and Re-scheduling programme.**
  - ii) The Block Development Officer 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.
  - iii) Within 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.
  - iv) 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, 1/4<sup>th</sup> of the whole time allowed under the contract has elapsed, 1/2 of the whole of the work before 1/2 of the whole time allowed under the contract has elapsed, 3/4<sup>th</sup> of the whole of the work before 3/4<sup>th</sup> of the whole time allowed under the contract has elapsed.
  - v) If at any time it should appear to the Engineer-in-Charge that the actual process 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.

- vi) 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.
- vii) The Engineer-in-Charges 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.
- viii) As soon as possible after the Agreement is executed 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 Block Development Officer 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.
- ix) In case of delay occurred due to any of the reasons mentioned below, the Contractor shall immediately give notice thereof in writing to the Block Development Officer 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 Block Development Officer to proceed with the works.
  - a. Force majeure, or
  - b. Abnormally bad weather, or
  - c. Serious loss or damage by fire, or
  - d. Civil commotion, local commotion of workmen, strike or lockout affecting any of the trades employed on the work, or.
  - e. Delay on the part of other contractors or tradesmen engaged by Block Development Officer in executing work not forming part of the Contract.
  - f. 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
  - g. Any other cause, which, in the absolute discretion of the authority mentioned, in Contract data is beyond the Contractors control.
- x) 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.
- xi) 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 Block Development Officer 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 Block Development Officer and this shall be binding on the contractor.

a. Deleted

74. **SPECIAL CONDITIONS:** - The contractors / Firms shall be responsible for the defect liability period for **12months** from the date of completion of the project.
75. 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.
- As per said amendment a Contractor may be blacklisted**
- a) Misbehavior / threatening of Departmental & supervisory officers during execution of work! tendering process.
  - 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 Steel i.e. any action that jeopardizes the security of the State.
  - f) Submission of false/fabricated/forged documents for consideration of a tender.

76. **ELIGIBILITY CRITERIA:** To be eligible for qualification, applicants shall furnish the followings.
- Required **E.M.D** as per the **clause No. 06**.
  - Copy of valid Registration Certificate, PAN card along GSTIN with the tender documents is mandatory furnish the original Registration certificate, GSTIN and Pan card, for verification before Block Development Officer, **Angul** as per **Clause No.05 & 7**.
  - Information regarding current litigation, debarring / expelling of the applicant or abandonment of work by the applicant in **schedule "E"** and **affidavit to that effect including authentication of tender documents in schedule "F"** failing, which the tender will be **rejected**.
  - Engineer contractor desirous to avail the facility of exemption of EMD is required to submit an **affidavit** to the effect that he/she has not yet availed the facility for more than two works during the current financial year. The **name of work** for which and the authority to whom the tender have been submitted, must be mentioned in the affidavit failing which the tender will be **rejected**.
  - Bidder can submit one tender paper for a particular work. Submission of more than one tender paper by a bidder for a particular tender will be liable for rejection of all such tender papers.
  - If the contractor has omitted to quote the rate both in figures and words the Tender will be sumurarrily **rejected**
77. **No Relation certificate.**  
The contractor shall furnish a certificate along with the tender to the effect that he is not related to any officer in the rank of an Assistant Engineer & above in the state P.W.D. or Assistant/Under Secretary & above in the Works 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**.
78. The tenderer should furnish information regarding current litigation, debarring / expelling of the applicant or abandonment of work by the applicant in **schedule "E"** and affidavit in original in **schedule "F"**.

Total: - 78 (Seventy eight) clauses only.

## **TECHNICAL SPECIFICATION OF ELECTRIFICATION INSTALLATION 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 of the definition of points wiring. The installation shall be carried out in conformity to all requirements of IE Act, 1910 and IE Rules 1956.

- Ceiling rose in (in case of ceiling and exhaust fan).
- Ceiling rose or connector (in case of pendants except stiff pendant points)
- Bank plate (in case of stiff pendant).
- Socket outlet (in case of socket outlet points)
- Lamps holder (in case of wall Bracket, batten holder bulk head fitting and similar other fittings)
- 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

- Switch and ceiling rose are required
- In case of wall brackets, bulk head fittings, cables as required up to the lamp holders]
- Bushed conduit for porcelain tubing where cables pass through walls.
- 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.
- Earth wire from 3 pin socket point to the common earth including connection to the earth dolley.
- Earth wire of 18SWG/H.D.B.C. wire for loop earthing of the fixture
- All fixing accessories such as clips, nails, screw, plug, rawl plug, wooden plug, round blocks etc. as required
- Joint for junction boxes and connecting the same as required
- 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 in 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 for 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 Electricity 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 of 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 his 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 the directive of the Government Electrical Inspector / Local Authorities, the 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 or 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.

**Installation and Maintenance Tools:**

The supplier along with the tender shall furnish a complete list of tools, appliances and accessories required for the installations of switch gear, light fittings, pipes cables and wires.

**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 the 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 suffer.

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 contract. 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 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 included 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 conductors. The wires used in the lighting installation shall be PVC insulated and sheathed 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 in 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 frame 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 aluminium 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 free 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 designs; 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.

### **CODES**

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 there under
- 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 Wirng 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	

**SCHEDULE-A**

**CERTIFICATE OF NO RELATIONSHIP**

I/We hereby certify that I/We\* am/are\* **related / not related**(\*) to any officer of P.W.D of the rank of Junior Engineer & above and any officer of the rank of Assistant 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

**SCHEDULE-“E”**

**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.   | Yes / No |
|    | b) | If yes: give details:   |          |
| 2. | a) | Has the tenderer or any of its constituent partners been debarred / expelled by any a gency 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.  | Yes / No |
|    | b) | If yes, give details:   |          |

**Note:**

If any information in this schedule is found to be incorrect or concealed, qualification application will be summarily be rejected.

Signature of the Tenderer

CONTRACTOR

Block Development Officer



**AFFIDAVIT**

I Sri/Smt/Kumari \_\_\_\_\_ aged \_\_\_\_\_ years, S/O / D/O / W/O \_\_\_\_\_, Vill. - \_\_\_\_\_ P.O. \_\_\_\_\_, Dist. \_\_\_\_\_ do hereby solemnly affirm and state as follows :

1. The undersigned, do hereby certify that all the statements made in the required attachments are true and correct for the \_\_\_\_\_ work " \_\_\_\_\_".
2. The undersigned also hereby certifies that neither our firm M/s \_\_\_\_\_ nor any of its constituent partners have abandoned any road/ bridge/Irrigation /Buildings or other project work in India nor any contract awarded to us 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)

Title of Officer

Name of Firm

Date

<b><u>TENDER SCHEDULE</u></b>					
<b>Tender Inviting Authority:-</b>			<b>BLOCK DEVELOPMENT OFFICER, ANGUL</b>		
<b>Name of the Work:-</b>			<b>Installation of External Electrification Work at Purunakot U.P School</b>		
<b>Amount Put To Tender:-</b>			<b>Rs. 4,11,960.00</b>		
<b>Tender Call No:-</b>			<b>02/2018-19</b>		
SI No	Item work	Quantity	Unit	Rate	Amount
1	(For 25KVA S/S -01No.) 9 mtr long 300 Kg. PSC Pole	2	No.	4170.00	8,340.00
2	Pressure Channel 100 x 50 x 6mm MS channel each 2.8 mtr. Long( 9.2 K.g. per mtr.)x2 Nos	51.52	K.g.	90.35	4,654.83
3	Transformer mounting chhanel 100 x 50 x 6mm MS channel each 2.8 mtr. Long( 9.2 K.g. per mtr.)x2 Nos	51.52	K.g.	90.35	4,654.83
4	AB Swith & HG Fuse, Mounting Channel 75x40x6 -2.8 mtr.long, 4 nos.(6.8K.g. per mtr.)	76.16	K.g.	90.35	6,881.06
5	Cantilever chhanel for supporting AB Switch arm, 75x40x6-1 mtr. Long, 2 nos.(6.8 K.g. per mtr.)	13.6	K.g.	90.35	1,228.76
6	Cantilever chhanel for supporting HG Fuse 50 x 50 x 6 mm MS Angel (1.0 mtrs. Long 2 nos.)4.5K.g. per mtr.	9	K.g.	90.35	813.15
7	Angel for Cantilever arrangement for AB Switch & HG Fuse 50 x 50 x 6 -2 mtr .each 2 nos.(4.5 K.g. per mtr.)	18	K.g.	90.35	1,626.30
8	Transformer belting Angel 50 x 50 x 6 mm - 2.8 mtr. Long 2 nos.(4.5 K.g. per mtr.) with side angel ( Total 7 mtr.)	31.5	K.g.	90.35	2,846.03
9	Angel for mounting LT distribution Box 50 x 50 x 6 mm MS Angel -2.5 mtrs.each Long 2 nos.( 4.5 K.g. per mtr.)	22.5	K.g.	90.35	2,032.88
10	11KV AB Switch 3 Pole (400 Amp)50 Hz	1	Set	16471.50	16,471.50
11	11KV HG Fuse 3 Pole (400 Amp) with PI	1	No.	16026.70	16,026.70
12	11 KV L.A. 12KV-10KA Station Class	3	No.	4934.50	14,803.50
13	H.T.stay set ( Complete )	2	Set	1459.50	2,919.00
14	H.T. Stay Insulator	2	No.	69.50	139.00
15	H.T. Stay clamp (1.95 K.g./ Pair )	2	Pair	173.75	347.50
16	7/10 SWG Stay Wire	20	K.g.	104.25	2,085.00
17	GI Pipe Earthing 40 Dia Medium gage 3 mtrs. Long	5	No.	1459.50	7,297.50
18	25x6mm GI Flat for nutral	80	K.g.	104.25	8,340.00
19	40x6mm GI Flat for nutral	20	K.g.	104.25	2,085.00
20	Fixing and concreating of stay set with 0.5Cum cement concret foundation 1:3:6 size ( 900mmx600mmx900mm) using 40mm BHG metal with all labour and material except stay set , stay wire , stay insulator .	2	No.	2437.92	4,875.84

CONTRACTOR

Block Development Officer

21	Concreting of support C.C - 1:4:8 using 40mm BHG metal size - 5'x2'x2' = 20CFT = 0.570Cum Padding 900x600x150mm = <u>0.081</u> 0.651Cum @ 3071.25= 1999.38each	2	NO	2779.14	5,558.28
22	Couping of support section 15"x15" ( 3.9Cft) height 2'-6' ( 1' - 6" above G.L & 1' - 0' below G.L ) in C.C 1:2:4 using 12mm BHG metal & curing for 5 days	2	Nos	712.24	1,424.47
23	Materials for Massionary work for Earth Pit,Charcoal, Salt etc including construction of earthing chamber (Size: 2"x2") and RCC slab cover	5	No.	2390.66	11,953.31
24	55mm <sup>2</sup> Insulated conductor	0.04	Km	54764.33	2,190.57
25	Red Oxide paint	2	Ltr	208.50	417.00
26	All. Paint	2	Ltr	278.00	556.00
27	Ms Nut , Bolt & Washer	36	K.g.	98.69	3,552.84
28	25 KVA, 11/0.4KV 3 star rated TFR AL	1	No	74782.00	74,782.00
29	L.T. Distribution box including Kit Kat fuse with MCCB for 25KVA S/S ( As pre CESU specification)	1	No.	20752.70	20,752.70
30	3 1/2 x 35mm <sup>2</sup> PVC Cable for 25 KVA TFR.	15	Mtr.	211.28	3,169.20
31	Boundary wall (15'x10') with brick,sand & metal spreading with grill Gate (10" width)	1	No.	97300.00	97,300.00
32	<b>(For 11 KV line 3Ph 3W - 0.1Km &amp; Guarding-01Span)</b> 9 mtr long 300 Kg. PSC Pole	3	No.	4170.00	12,510.00
33	11 KV V Cross Arm (10.2 Kg each )	3	No.	1125.90	3,377.70
34	Top Bracket 75x40mm MS Channel (1.3Kg each)	3	No.	139.00	417.00
35	Back Clamp for V Cross Arm (1.70 Kg each )	3	pair	111.20	333.60
36	11 K.V.GI Pin	11	No.	111.20	1,223.20
37	11 K.V. Pin Insulator	11	No.	111.20	1,223.20
38	11 K.V. H.W. Fitting (B & S )	6	No.	486.50	2,919.00
39	11 K.V. DISC Insulator (B & S) Double Disc 70KN	12	No.	542.10	6,505.20
40	H.T.stay set ( Complete )	1	Set	1459.50	1,459.50
41	H.T. Stay Insulator	1	No.	69.50	69.50
42	Fixing and concreting of stay set with 0.5Cum cement concret foundation 1:3:6 size ( 900mmx600mmx900mm) using 40mm BHG metal with all labour and material except stay set , stay wire , stay insulator .	1	No.	2437.92	2,437.92
43	H.T. Stay clamp (1.95 K.g./ Pair )	1	Pair	173.75	173.75
44	7/10 SWG Stay Wire	10	K.g.	104.25	1,042.50
45	Earthing of Support ( Coil Type )	3	No	230.74	

					692.22
46	55 Insulated conductor	0.31	K.M.	54764.33	16,976.94
47	Concrete slab for base plate size 2ftx2ftx2" thickness for each PSC pin Point.	3	Nos	510.83	1,532.48
48	Concreting of support C.C - 1:4:8 using 40mm BHG metal size - 5'x2'x2' = 20CFI = 0.570Cum Padding 900x600x150mm = 0.081 0.651Cum @ 3071.25= 1999.38each	3	NO	2779.14	8,337.41
49	Red Oxide paint	3.5	Ltr	208.50	729.75
50	Aluminium Paint	3.5	Ltr	278.00	973.00
51	Black Paint	1	Ltr	305.80	305.80
52	GI barbed wire anticlimbing device 2 Kg. Per support	6	K.g.	111.20	667.20
53	100 x 50 x 6 mm MS channel	30	K.g.	90.35	2,710.50
54	Ms Nut , Bolt & Washer of different sizes	5	K.g.	98.69	493.45
55	<b>(Guarding for Road Crossing)</b> 75 x 40 x 5 mm MS channel	65	K.g.	41.70	2,710.50
56	50 x 50 x 6 mm MS Angle (4.5 Kg./Mtr)	65	K.g.	27.80	1,807.00
57	No-8 GI Stay Wire (Dia 4.6 mm)	75	K.g.	55.60	4,170.00
58	I Hook	60	No	5.56	333.60
59	Sundries for survey tree cutting , small size nut bolt, Allm. Binding wire / tape & Danger Board 4 Nos. etc.	1.1	LS	5184.70	5,703.17
	( Fifty nine items)only		<b>TOTAL</b>		<b>4,11,959.83</b>

**(Rupees Four Lakh Eleven thousand Nine hundred sixty) only**

**Special condition:** - All materials, labour, machineries, and equipments required to complete the work in all respect shall be arranged by the tenderer at his own cost. The employer will bear no responsibility in this aspect.

My /Our quoted rate is \_\_\_\_\_ % Excess over  
 \_\_\_\_\_ % Less than  
 \_\_\_\_\_ Equal to the corresponding estimate rate.

**Signature of the Contractor.**

**Notes:** 1. The Contractor should not write anything except quoting of percentage, excess/ less / equal to the estimated cost.

No. of corrections.....

No. of overwriting.....

No. of interpolations.....

No. of omission.....

B.D.O, Angul  
 Date:-

CONTRACTOR

Block Development Officer

**Official use only**

1. Name of the work:-.....
2. Approximate estimated cost put to tender:-Rs-
3. Value of E.M.D as per tender call notice:-
4. (a) E.M.D deposited by the tenderer in shape of :-  
(b) Amount pledged/unpledged:-
5. Valid I.T.C.C
6. Valid GSTIN
7. Stipulated period of completion:-
8. Cost of tender paper:-
9. Date & time of opening of the tender paper:-
10. Tender paper in -----/ sheets
11. No of items tendered:-
12. Total overwriting and correction:-

Sold to - \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ class contractor

Vide M.R No \_\_\_\_\_ dated \_\_\_\_\_

B.D.O, Angul  
(Office Seal)