

E-Tender Document/ई – निविदा दस्तावेज

for

Renovation Of Switchyard & Construction Of Panel Room



ई – निविदा दस्तावेज /E-TENDER DOC. NO. - CIPET: SARP-LARPM/RSPR/2021-22/11

बोली जमा करने की अंतिम तिथि/LAST DATE FOR SUBMISSION OF BID: 06-04-2022 upto-15.00 hrs.

केंद्रीय पेट्रोकेमिकल्स इंजीनियरिंग एवं तकनीकी संस्थान (सिपेट)

CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY

(Dept. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizer, Govt. of India)

B-25, C.N.I. Complex, Patia, Bhubaneswar – 751 024 (Odisha)

Tel: 0674-2740173, Fax : 0674-2740463,

Web: cipet.gov.in, e-mail : larpmcipet@larpm.in

केंद्रीय पेट्रोकेमिकल्स इंजीनियरिंग एवं तकनीकी संस्थान(सिपेट)

CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

SCHOOL FOR ADVANCED RESEARCH IN PETROCHEMICALS (SARP) - LARPM
(Dept. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizer, Govt. of India)
B-25, C.N.I. Complex, Patia, Bhubaneswar – 751 024 (Odisha)
Tel: 2740173, Fax : 0674-2740463
Email : larpmcipet@larpn.in

NOTICE INVITING E-TENDER

CIPET: SARP-LARPM, Bhubaneswar invites bids from reputed electrical contractors in two Bid Systems (Part1 Technical and Part 2 Financial) for renovation of switchyard and construction of panel room at CIPET:SARP-LARPM, Bhubaneswar, Odisha.

IMPORTANT INFORMATION AND DATES

S.N	Description	Details
1	Purchaser	CIPET: SARP-LARPM, Bhubaneswar, Odisha
2	Tender No	CIPET:SARP-LARPM/RSPR/2021-22/11
3	Online Tender submission of bid	www.tenderwizard.com/CIPET
4	Online Tender information available at	www.cipet.gov.in
5	E-Tender Fees (including GST)	Rs. 1180/- (Rupees One Thousand One Hundred eighty Only)
6	Earnest Money Deposit EMD (in Rs.)	Rs. 1,32,066/- (Rupees One Lakh Thirty Two Thousand Sixty Six Only)
7	Security Deposit (in Rs.)	Rs. 79,239/- (Rupees Seventy Nine Thousand Two Hundred Thirty Nine Only)
8	Date of E-Tender Publication	13-03-2022
9	Date and Time to download e-Tender document from website	15-03-2022 onwards
10	Last Date and Time for Submission of E-Tender	06-04-2022 up to 15.00hrs
11	Date, Time and place of opening of Technical bid	06-04-2022 at 15.30 hrs. CIPET: SARP-LARPM, Bhubaneswar Odisha
12	Date and Time of opening of Financial bid	After evaluation of Technical Bid
13	(Name of the CIPET Centre) online Bank Details	(CIPET LARPM) A/C No : 34640722811 Branch Code:10133 IFSC Code: SBIN0010133 Name: State Bank of India

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ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

E-Tender No: CIPET:SARP-LARPM/RSPR/2021-22/11 Dated: 13-03-2022

The prescribed Tender Form containing the details may be obtained from website: www.cipet.gov.in/www.tenderwizard.com/CIPET till **06-04-2022 up to 15.00 Hrs.** The Tender Fee will be accepted through Online Transfer i.e. RTGS/NEFT to State Bank of India, CIPET LARPM, Current A/c No- 34640722811, and IFSC Code SBIN0010133.

The online bidding documents (Technical bid and Financial bid) duly filled in as per the instructions of the e-tender document shall be submitted online only latest by **06-04-2022 at 15.00 hrs.** Offline tender document shall not be accepted and it may be treated as rejected.

The bidders have to quote only online bid (Part 1 Technical and Part 2 Financial). Technical Bid shall be opened on **06-04-2022 at 15.30 hrs.** in presence of Tender Committee Members & bidders at CIPET: SARP-LARPM, Bhubaneswar. The Institute reserves right to reject any or all the bids without assigning any reasons, thereof.

The tender documents giving full details, terms and conditions can be downloaded from Web Site. The offers will be submitted in online which contain as follows:

List of Documents to be uploaded online:

1. Copy of the payment receipt as Tender fees (Directly Online Transfer on CIPETA/cNo-34640722811 and IFSC Code SBIN0010133)
2. Profile of the Electrical Contractor on its letterhead.
3. Name of the owners/partners/Principal Director of the firm/company/corporation and their addresses.
4. A self-attested Registration Certificate under the Companies Act, 1956/2013 or a partnership firm registered under Indian Partnership Act of Proprietary Concern.
5. A self-attested Registration Certificate under Contract Labour (Regulation & Abolition) Act, 1970.
6. Valid copy of Electrical License, GST, PAN, EPF and ESIC registration.
7. Copy of work order/experience certificate, wherein the bidder is having at least 03 years experience in similar work in Ministry/Departments of Govt. of India/Central PSUs/Nationalized Banks/State Govt. Departments/Autonomous /Statutory Bodies/Corporations.
8. Copies of self-attested audited profit & loss account /income & expenditure account and balance sheets for the past two financial years wherein the average annual turnover of the company/firm/agency should be more than rupees Fifty lakh during the last two financial years

Financial Bid details as per online schedule

Price bid of the bidders, whose Tender cost, Technical bid are found in order, shall be opened as per schedule intimated after opening of Technical Bid. Director& Head CIPET: SARP-LARPM, Bhubaneswar, reserves all right regarding enhance or reduce the quantity of work and to cancel the entire tender or any tender without assigning any reason thereof. Conditional Tender will not be accepted.

Note: The bidders are requested to go through the instructions carefully and complete all formalities as required and submit along with bid.

Purchase Officer
CIPET: SARP-LARPM, Bhubaneswar

INDEX

SI. No	Content	Page No.
01	Instruction to Bidder and general terms and conditions	6 - 12
02	Annexure -I (Technical Bid)	13 - 14
03	Annexure -II (Financial Bid)	15
04	Annexure-III (BOQ)	16 - 31
05	Declaration	32

Instructions to Bidders and General Terms & Conditions

The Director& Head , CIPET: SARP-LARPM, Bhubaneswar, B-25 CNI complex, Patia, Bhubaneswar Odisha,751024 invites bids from reputed electrical contractor for renovation of switchyard and construction of panel room at CIPET: SARP-LARPM, Bhubaneswar, Odisha in a two bid system taking into account the following conditions:

I) General Terms & Conditions:

- 1. Payment :** Against submission of each running bill.
- 2. Taxes:** Goods and Service Taxes are applicable as per the prevailing rate. If bidder doesn't mention taxes and duties , the same shall be considered as "borne by the bidder itself" and included in its quoted price.
- 3. Time Of Completion:** The period of completion of the work is forty five (45) days from the date of the award of Work Order.
- 4. Defect Liability Period :** The defect liability period is 12 months from the date of the complete handover of work to CIPET:SARP-LARPM, Bhubaneswar. Inspection & field visit charge shall be borne by the bidder. Free maintenance service shall be provided till one year from the date of satisfying completion of work and hand over to CIPET:SARP-LARPM ,Bhubaneswar. Loading, Transportation & Insurance (if applicable) charges shall be bear by the bidder.
- 5. Performance Security:** Security deposit shall be 3% of the total contract value and deducted from each running bill as security deposit. 50% of the security deposit shall be refunded after completion of the work and on submission of completion certificate. Remaining 50% shall be refunded only after end of defect liability period of one year, provided the contractor has satisfactory carried out all the works and attended to all defects in accordance with the all conditions of contract.
- 6. Safety Provision:** Contractor should take all safety precautionary measures including any safety equipment, protective suits etc. during the execution of awarded works. In case of any accidents occurring during execution of the awarded works, the Contractor shall be wholly responsible and the Contractor cannot claim any kind of compensation from CIPET:SARP-LARPM, Bhubaneswar.
- 7. Pre-Bid inspection/Survey:** The Bidder, at the Bidder's own responsibility and risk, is encouraged to visit and examine the work site and its surroundings and obtain all information that may be necessary for preparing the Bid for entering into a contract for execution of the Works. The costs of visiting the site shall be at the Bidders' own expense.
- 8. Liquidated Damage:** If the contractor fails to complete the works within the time period(s) specified in the Contract/work order, CIPET:SARP-LARPM, Bhubaneswar shall, without prejudice to its other remedies under the contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 1 % of the contract value of the delayed work or unperformed services for each week of delay until actual performance, up to a maximum deduction of Max of 10% of the delayed works or services of the Contract price. Once the maximum is reached, CIPET:SARP-LARPM,

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

- Bhubaneswar may consider for termination of the contract and may initiate for process for blacklisting.
9. The Bidder shall provide the Bank accounts details along with Scanned copy of cancelled cheque for onward transaction.
 10. **Bid document:** The bidder should read the e-Tender documents carefully before quoting. It shall be deemed that the bidder has gone through the documents carefully and has understood its implication.
 11. The e-Tender, submitted by the Bidder who have already been declared as **Black Listed** or whose contract was terminated for **dissatisfactory work** or who was unable to complete the work in any Institute/Organization run by the State / Central Government / PSU / Corporate Sectors will not be considered even his being the lowest rate.
 12. The Bidder should provide relevant documents regarding the Partnership Firm/Public/Pvt. Ltd. Company/Cooperative society.
 13. Restriction of Bidders from Countries sharing Land Borders with India: vide Department of Expenditure, MOF, Govt. of India OM No. 6/18/2019-PPD date: 23/07/2020 and its subsequent order dated 23.07.2020 and 24.07.2020 is applicable in this tender.
 14. Relaxation of Norms for Startup and Micro & Small Enterprises in Public Procurement on Prior Experience – Prior Turnover Criteria is applicable; hence the MSME/NSIC certificate should be submitted.
 15. In Pursuance of Rule 153 (iii) of GFR-2017, preference to “Make in India” shall be given in procurement.
 16. The tender documents shall be treated as “Confidential”
 17. Bid shall be uploaded with a forwarding letter head of the bidder/agency duly signed and stamped by authorised signatory on each page to ensure the compliance of scope, services and general terms and conditions of the tender under reference.
 18. Technical Bid should be uploaded by the bidder strictly as per bidder eligibility criteria with documentary evidence prescribed.
 19. No overwriting, corrections and striking in the financial bid format is permitted. All entries in the bid/tender form should be legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorised signatory may be attached.
 20. Each page of the uploaded document should be signed and stamped by authorized signatory.
 21. Rates should be quoted, both in figures & words, inclusive of all taxes. In case of variation between the rates quoted in figures and words, one in words shall be taken as final.
 22. CIPET: SARP-LARPM, Bhubaneswar reserves the right to modify/relax any of the terms & conditions of the tender.
 23. The Awarded bidder shall undertake to abide by all rules, regulations & laws and shall agree to keep itself liable and responsible for any such violation directly before Director& Head, CIPET: SARP-LARPM, Bhubaneswar.

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ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

24. The e-tender will be opened online on working day at the stipulated time.
25. Fees in favour of CIPETLARPM payable at Bhubaneswar shall be transferred online NEFT/RTGS for E-Tender fee as applicable, failing which, the bid will be rejected.
26. The successful agency/bidder shall not be allowed to transfer, assign, pledge or sub-contract its right and liabilities under the contract to any other agency.
27. The bidder will be bound by the details furnished by him to CIPET:SARP-LARPM, Bhubaneswar while submitting the E-tender/bid or at subsequent stage. In case such documents furnished by the bidder or successful bidder are found to be false or incorrect at any stage, it would be deemed to be a breach of terms of contract making him liable for legal action besides termination of contract.
28. Any legal disputes subject to Bhubaneswar, India jurisdiction only

II) Eligibility of Bidders:

1. The bidders should be a company, **registered under Indian Companies Act, 1956/2013** or a partnership firm registered under the Indian **Partnership Act or a proprietary concern**. Self-attested documentary proof should be uploaded.
2. The bidder should have at **least three years experience** of similar work in Ministry/Departments of Govt. of India/Central PSUs/Nationalised Banks/State Govt. Departments/Autonomous /Statutory Bodies/Corporations. The copy of the experience certificate /work order issued by the respective office should be provided.
3. The bidder should have average annual turnover more than rupees **fifty lakh** during the last three financial years
4. The bidder **should have office of the company/firm/agency in the state of Odisha, Bhubaneswar**. A self-attested documentary proof should be provided.
5. The bidder should furnish a signed declaration that they have carefully read the terms and conditions of the tender and accepted all the provisions of the tender document.
6. The bidders shall give a self-declaration of his relatives working with the CIPET along with their designations and addresses.
7. The bidder should furnish signed declaration indicating that they have **not been blacklisted/debarred** by the Ministry/Departments of Govt. of India/Central PSUs/Nationalised Banks/State Govt. Departments/Autonomous /Statutory Bodies/Corporations and there is **no litigation** continuing with any Government Department is pending on account of similar services.
8. The tenderer/bidders are required to upload attested photocopies of the documents listed below along with these E- tender documents, with the "Technical Bid" failing which the bids shall be summarily rejected and will not be considered any further.

Self-attested documents to be submitted along with the Technical Bid:

1. Registration Certificate under the Companies Act, 1956/2013 or a partnership firm registered under Indian Partnership Act or Proprietary concern.
2. Registration Certificate under Contract Labour (Regulation & Abolition) Act, 1970.
3. Copy of Valid Electrical Contractor License.
4. Copy of PAN Card.
5. Copy of the latest IT Returns filed with the Income Tax Department.
6. Copy of EPF Registration certificate.
7. Copy of ESI Registration certificate.
8. Copy of the Turnover Statement for the last two years.
9. A self-attested bank account statement for the last six months.

III) Technical Evaluation Criteria:

The bidder must fulfill the following technical criteria/attach the following required certificates in order to be eligible for financial evaluation and compliance of bid described in the tender document.

1. A self-attested Registration Certificate under the Companies Act, 1956/2013 or a partnership firm registered under Indian Partnership Act of Proprietary Concern.
2. A self-attested Registration Certificate under Contact Labour (Regulation & Abolition) Act, 1970.
3. A self-attested copy of PAN card.
4. Bidder is required to have office/ Branch office in the State of Odisha or Bhubaneswar
5. A self-attested copy of the latest IT Returns filed preceding two financial years with the Income Tax Department.
6. A self-attested copy of EPF and ESI Registration certificate.
7. A self-attested copy of the Service Tax/GST Registration certificate.
8. The bidder should have at least **3 years experience** of deployment of different category of manpower in Ministry/Departments of Govt. of India/Central PSUs/Nationalised Banks/State Govt. Departments/Autonomous /Statutory Bodies/Corporations. A copy of the experience certificate/work order issued by the respective offices should be provided.
9. The average annual turnover of the company/firm/agency should not be less than rupees **fifty lakh during the last three financial years**. Copies of self-attested audited profit & loss account /income & expenditure account and balance sheets for the past two financial years should be provided.

IV) Award of Bidders

Financial Evaluation Criteria

1. The financial bid of only those bidders/tenderers whose Technical Bids are found qualified will be opened. The financial bid shall be opened at a later stage through online of technically qualified bidders.
2. The evaluation of technical bid will be done by considering the parameters listed in section “Technical Evaluation Criteria” and in Annexure – 1 (Technical Bid Document).
3. The rates in the financial bid should be strictly as per Annexure-II

V) Issue of Letter of Intent

1. The issue of letter of intent / work order shall constitute the intention of CIPET: SARP-LARPM, Bhubaneswar to award the work as specified in the E-tender document with the successful agency /bidder.
2. The bidder shall within two weeks of issue of letter of intent / work order should give his acceptance along with security deposit/ performance guarantee (PG) as mentioned in bid document.
3. The bidder shall also have to sign an agreement on Rs.100/- non judicial stamp paper in the prescribed format to safeguard the interest of CIPET:SARP-LARPM, Bhubaneswar

VI) Bid Security (EMD) / Security Deposit/Performance Bank Guarantee

Successful bidder has to submit Performance Bank Guarantee / Security deposit equivalent to 3 % of the amount of work order value from nationalized bank to CIPET: SARP-LARPM, Bhubaneswar, which should be valid for a period of 60 days beyond the completion of the contractual obligations by the bidder. In case, the contract is further extended beyond the initial period, the performance security will have to be accordingly renewed by the agency. The same will be returned after the completion of contract without interest.

VII) The successful bidder will be required to execute an agreement with CIPET: SARP-LARPM, Bhubaneswar Within the period specified in the Letter of Intent/ work order on Rs.100/- non judicial stamp paper.

VIII) Forfeiture of EMD/Security Deposit/Performance Guarantee

1. If the successful bidder/agency refuses/fails to accept the Letter of Intent (LOI)/Work Order issued by CIPET: SARP-LARPM, Bhubaneswar or the work assigned to the agency/bidder are not done as per the scope of work/schedule of requirement, Security Deposit will be forfeited and the bidder will not be entertained for any tenders that may be published in future by CIPET: SARP-LARPM, Bhubaneswar.

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ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

2. If the contract is terminated by CIPET: SARP-LARPM, Bhubaneswar due to poor performance/violation(s) of any clause(s) of the agreement or for any bad acts considered prejudicial by CIPET Centre of the selected bidder, security deposit/PBG will be forfeited.
3. In case the successful bidder /agency fails to enter into the agreement with CIPET:SARP-LARPM, Bhubaneswar within the specified date mentioned in the letter of intent/work order, the security deposited by such bidder/agency shall stand forfeited without giving any further notice.

IX) Rejection of the Bid

1. The bidder is expected to examine all instructions, formats, terms and conditions, and scope of work in the bid documents. Failure to furnish complete information or false information/documents shall result in rejection of bid.
2. In respect of interpretation/clarification of this bid document and in respect of any matter relating to this bid document, the decision of Director& Head CIPET:SARP-LARPM, Bhubaneswar shall be final and binding.
3. The bidder will have to upload the required documents as specified in the bid document, failing which the bid is liable to be rejected.
4. No price is to be indicated in the technical bid and if the price is mentioned in the “Technical Bid”, it may lead to rejection of the Bid.
5. If the bids are not submitted as per two bid system, they will summarily be rejected.
6. The bids received after the specified date and time for submission shall not be considered.
7. The bids received through fax/email or any other mode other than those specified in the tender document shall not be considered.
8. Conditional bids shall not be considered and will be out-rightly rejected at the first instance.

X) Service delivery

Work Commencement shall be within 15 days from the date of letter of intent/work order issued. If any of the conditions, as per the E-tender/contract, are not met, the successful bidder / agency / contractor will be blacklisted and will not be considered for future proposals.

XI) Liquidated Damages

1. If the contractor fails to complete the works within the time period(s) specified in the Contract/work order, CIPET:SARP-LARPM, Bhubaneswar shall, without prejudice to its other remedies under the contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 1 % of the contract value of the delayed work or unperformed services for each week of delay until actual performance, up to a maximum deduction of Max of 10% of the delayed works or services of the Contract price. Once the maximum is reached, CIPET:SARP-LARPM, Bhubaneswar may consider for termination of the contract and may initiate for process for blacklisting..

XII) Clarification of Bids

To assist in the examination, evaluation and comparison of bids, CIPET: SARP-LARPM,

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ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

Bhubaneswar may, at its discretion, ask the bidder for any clarification(s) of their bid. The request for clarification and the response shall be by email and no change in the price or substance of the bid shall be sought, offered or permitted. However, no post bid clarification at the initiative of the bidder shall be entertained.

XIII) Cancellation by default

CIPET: SARP-LARPM, Bhubaneswar may, without prejudice to any other remedy for breach of the work order, cancel the work order in whole or part after serving a notice in writing.

- i) If the bidder/agency fails to provide services within the time period specified in the work order.
- ii) If the bidders/agency fails to perform any other obligations as mentioned in the work order/contract.

XIV) Blacklisting

A Company / firm which has been blacklisted /debarred by or is engaged in any continuing litigation on account of similar services with; any of the Government Departments - as mentioned at sub-clause no. 6 of clause II of "Instruction to Bidders and General Terms & Conditions" of this document, is not eligible to participate in the bidding process. If at any stage of bidding process or during the currency of the work order, such information comes to the knowledge of CIPET: SARP-LARPM, Bhubaneswar, CIPET: SARP-LARPM, Bhubaneswar shall have the right to reject the bid or cancel the work order, as the case may be, without any compensation to the bidder. Bidders/agencies have to submit an undertaking to this effect that they have not been blacklisted /debarred by any of the above mentioned Government Departments.

XV) Jurisdiction for Dispute redressal

All disputes or differences whatsoever arising between the parties out of or relating to the meaning and operation of effect of the work order or the breach thereof shall be subject to courts at located at Bhubaneswar.

XVI) Force Majeure

If, at any time, during the continuance of the agreement, the performance in whole or in any part by either party of obligation under the agreement shall be prevented or delayed by reasons of any war, hostile acts of the enemy, civil commotion, fire, floods, earthquakes, explosions, epidemics, strikers and quarantine restrictions by acts of God, (herein after referred to as eventualities) then, provided notice of the happening of any such eventualities is given by either party to the other within two days from the date of occurrence thereon, neither party shall, by reason of such eventualities be entitled to terminate this contract agreement nor shall either party have any claim of damages against the other in respect of such non-performance or delay in performance. Performance of the contract agreement shall, however be resumed as soon as practicable after such eventuality has come to an end.

Purchase Officer
CIPET:SARP-LARPM, Bhubaneswar

ANNEXURE- I TECHNICAL BID DOCUMENT

1.	Name of the Contractor/Proprietor		
2.	Profile of the Contractor/Proprietor		
3.	Name of Contractor/Proprietor		
4.	Full Address of Registered Office of Contractor/Proprietor		
	(a) Telephone No.		
	(b) Fax No.		
	(c) Mobile No.		
	(d) e-Mail No.		
5.	Correspondence address of office of Contractor/Proprietor		
6.	Full address of branch office of Contractor/Proprietor		
7.	PAN No.		
8.	GST No.		
9.	Annual turnover of the Dealer/Manufacturer for the last three Financial year (a copy of the turnover statement for the below three assessment years separately, duly certified by the chartered accountant, to be attached) :		
	Average > 50 Lakh		
	Financial Year	Amount (₹ in Lakh)	Remarks, if any
	2018-19		
	2019-20		
	2020-21		
10.	Balance Sheet & PL Account statement for the last three financial year (a copy of the balance sheet statement for the below three financial year separately to be attached):		
	Financial Year	Amount (₹ in Lakh)	Remarks, if any
	2017-18		
	2018-19		
	2019-20		

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

11.	IT return for the last three assessment year (a copy of the statement for the below three assessment year separately to be attached):		
	Assessment Year	Amount (₹ in Lakh)	Remarks, if any
	2018-19		
	2019-20		
	2020-21		
12.	Details of the Bidder must have satisfactorily completion of similar work in Govt. Organisations/PSU/Corporate Sectors during the last 3 years with the total cumulative cost of the project not less than 50 lakh rupees.(Separate copies of related document should be separately uploaded)		
Sl. No	Details of Parties along with their address, telephone and fax no. & email address	Price of the Awarded Contract (in ₹)	Name/Type of the Work Completed
(A)			
(B)			
13.	Self-declaration of No pending litigation		
14.	Self-declaration statement for bidder not debarred/blacklisted or banned from any Central Government / PSU / State Govt. / any Corporate Sector.		
15.	The bidder shall have local office/infrastructure to attend visit within 48 hours.(Mention in details)		
16.	Bidder shall have any relatives working with CIPET , if any give their name, designation & address.		
17.	The bidder should sign & seal each page of the tender document and required to upload.		

(If the space provided is insufficient, a separate sheet may be attached)

Annexure - II

“FINANCIAL BID”

**Renovation of Switchyard & Construction of Panel Room at
CIPET:SARP-LARPM, Bhubaneswar, Odisha**

To,
M/s. CIPET: SARP- LARPM
CIPET, B/25, CNI Complex
(P.O.) KIIT, Patia, Bhubaneswar,
Orissa 751024

Subject: Financial Bid for Renovation of Switchyard & Construction of Panel Room at CIPET:SARP-LARPM, Bhubaneswar Odisha – reg.

Dear Sir,

In response to **Tender Doc No: 11/2021-22**, We are pleased to enclose the following as our financial bid for your kind consideration:

Sl. No.	Description	Total Amount in Rs.
01	As per BOQ and Drawing enclosed	

- Note : Please visit our site before quoting your valuable price as per BOQ and drawing.

Terms & Conditions :

1. Taxes
2. Payment
3. Validity
4. Completion period of work
5. Any other (Plz. Mention)

Date :

Authorized Signatory

Place :

Office Seal

Annexure - III

FINANCIAL BID DOCUMENT

BOQ to be filled by the Bidder

Renovation Of Switchyard & Construction of Panel Room

Sl. No.	Description	Quantity	Unit	Rate	Amount
BOQ For Construction Of Panel Room					
1	EARTH WORK				
1.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge:				
1.1.A.1	All kinds of soil	36.20	Sq.m.		
1.1.A.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	60	meter		
1.1.A.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	10	meter		
1.1.A.4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	48.07	Cum		
1.2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
1.2.A.1	All kinds of soil	6	Cum		
1.2.A.2	clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	100	Sqm		
2	CONCRETE WORK				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2.1.A.1	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size).	7.119	Cum		
2.1.A.2	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	3.5	Cum		
2.2	Centering and shuttering including strutting, propping etc. and removal of form work for :				
2.2.A.1	Foundations, footings, bases for columns	31.2	Sqm		

2.2.A.2	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	62.5	Sqm		
2.2.A.3	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	125.5	per 50 kg cement		
2.2.A.4	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	32.94	Sqm		
3	REINFORCED CEMENT CONCRETE				
3.1	Centering and shuttering including strutting, propping etc. and removal of form for:				
3.1.A.1	Foundations, footings, bases of columns, etc. for mass concrete	24.5	Sqm		
3.1.A.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	4	Sqm		
3.1.A.3	Suspended floors, roofs, landings, balconies and access platform	3	Sqm		
3.1.A.4	Shelves (Cast in situ)	2	Sqm		
3.1.A.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	12	Sqm		
3.1.A.6	Columns, Pillars, Piers, Abutments, Posts and Struts	26	Sqm		
3.2	Edges of slabs and breaks in floors and walls				
3.2.A	Under 20 cm wide	12.5	metre		
3.3	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).				
3.3.A.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	84.5	Sqm		
3.3.A.2	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but , excluding the cost of reinforcement, with 1:1.5:3	1.5	Sqm		

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	(1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).				
3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
3.4.A.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	11.74	Kg.		
3.5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.5.A.1	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	11.32	Kg.		
3.5.A.2	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	6	metre		
3.6	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).				
3.6.A.1	All works upto plinth level	18.55	cum		
3.6.A.2	All works above plinth level upto floor V level	11.32	cum		
3.6.A.3	Add for using extra cement in the items of design mix over and above the specified cement content therein.	10	quintal		
4	BRICK WORK				
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
4.1.A.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	11.26	cum		
4.1.A.2	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	36	sqm		
4.2	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

4.2.A.1	Cement mortar 1:6 (1 cement : 6 Coarse sand)	17.03	cum		
4.2.A.2	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	28.8	meter		
4.3	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level.				
4.3.A.1	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	4.5	sqm		
5	STEEL WORK				
5.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	4.5	kg		
5.2	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
5.2.A.1	Using M.S. angles 40x40x6 mm for diagonal braces	4.2	sqm		
6	FLOORING				
6.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
6.1.A.1	40 mm thick with 20 mm nominal size stone aggregate	69	sqm		
6.2	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
6.2.A.1	Light shade pigment using white cement	12	sqm		
6.3	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of 14.4 steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand)	14.4	sqm		

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुबनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.				
6.4	Stone work (machine cut edges Veneer work) for wall lining upto 10 m Stone work (machine cut edges Veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately).				
6.5	Kota stone slabs exposed face dressed and rubbed.25 mm thick	52.60	sqm		
7					
7.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design:	24	meter		
7.2	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	2	each		
7.3	Providing and fixing on wall face unplastised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
7.3.A.1	75 mm diameter	18	meter		
7.3.A.2	110 mm diameter	10	Meter		
7.4	Providing and fixing on wall face unplastised - PVC moulded fittings/ accessories for unplastised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
7.4.1	Coupler				
7.4.1.A	110 mm	2	each		
7.4.2	Bend 87.5°				
7.4.2.A	110 mm bend	2	each		
7.4.3	Shoe (Plain)				
7.4.3.A	110 mm Shoe	2	each		
7.5	Providing and fixing unplastised -PVC pipe				

	clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
7.5.A.1	110 mm	4	each		
8	FINISHING				
8.1	12 mm cement plaster of mix :				
8.1.A.1	1:4 (1 cement: 4 coarse sand)	74.88	sqm		
8.2	15 mm cement plaster on rough side of single or half brick wall of mix:				
8.2.A.1	1:6 (1 cement: 6 coarse sand)	124.57	sqm		
8.3	20 mm cement plaster of mix :				
8.3.A.1	1:4 (1 cement: 4 coarse sand)	10.5	sqm		
8.4	6 mm cement plaster of mix :				
8.4.A.1	1:3 (1 cement : 3 fine sand)	36	sqm		
8.5	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	12	Per bag of 50 kg cement used in the mix		
8.6	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
8.6.A.1	Water thinnable cement primer	235.45	sqm		
8.7	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	124.57	sqm		
8.8	Applying priming coat:				
8.8.A.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	3	sqm		
8.9	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :				
8.9.A.1	Two or more coats on new work	235.45	sqm		
8.10	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
8.10.A.1	Two or more coats on new work	12.5	sqm		
8.11	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	360.03	sqm		
9	ROAD WORK				
9.1	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with	40	sqm		

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुबनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.				
9.2	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not be more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	2	cum		
10	ALUMINIUM WORK				
10.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
10.1.A	For fixed portion				
10.1.A.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	274.4	kg		
10.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
10.2.A.1	With float glass panes of 5.50 mm thickness	6.48	sqm		
10.3	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
10.3.A.1	Upto 5mm depth and 5 mm width	50	meter		

11	WATER PROOFING				
11.1	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer- in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer- in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p>				
11.1.A.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	64	sqm		
12	WIRING				
12.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
12.1.A.1	Group C	4	point		
12.2	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit	30	mtr		

	alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.			
12.3	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	22	mtr	
12.4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.			
12.4.A.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	15	mtr	
12.4.A.2	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	12	mtr	
12.4.A.3	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	20	mtr	
12.5	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.			
12.5.A.1	20 mm(For LAN/FA/TELEPHONE)	8	mtr	
12.5.A.2	25 mm (For LAN/FA/TELEPHONE)	10	mtr	
12.6	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armoring & FRLS outer sheath complete as required.	10	mtr	
12.7	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.			
12.7.A.1	6 pin 25 amp socket outlet	4	nos.	
12.7.A.2	Modular Blanking plate	4	nos.	
12.8	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.			
12.8.A.1	1 or 2 Module (75 mmX75 mm)	6	nos.	
13	FITTING & FIXTURES			
13.1	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	1	each	
13.2	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	2	each	
13.3	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as	3	each	

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	required.				
13.4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 2 Nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	1	each		
13.5	Supplying and fixing of Energy efficient surface mounted downlighter LED luminaire with polycarbonate housing with wattage not less than 12 watt and lumen output not less than 100 lumens/watt,CRI not less than 80,CT of 3000-4000 degree K,THD not less than 10%, with electronic driver and all other accessories suitable for operation on 230 V, 50 Hz supply as reqd. (Make : PHILIPS Model No:SM250C LED12S- 4000 PSU WH or equivalent make of /Trilux/Osram/WIPRO/LT)	6	each		
13.6	S.I.T.C. of 1200 mm sweep BEE 5 star rating ceiling fan i/c wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm FR PVC insulated copper conductor single core cable etc. as required.	1	each		
13.7	Supply, installation of 300 mm sweep 900 RPM heavy duty metal exhaust fan with louver shutter in the existing opening.including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc as required.	1	each		
13.8	Supplying and fixing on wall mounted type bulk head LED light fitting complete with all accessories as required. (Make : PHILIPS Model NO:WT202W LED6S NW PSU S2 PC or similar of /Osram/Trilux/WIPRO)	2	each		
13.9	SITC of energy efficient LED tube light fittings with decorative batten and LED tube light having power rating not more than 20 watt and lumen output not less than 1600 lumen complete with electronic driver and all other accessories with diffuser i/c connection etc as required. (Similar to PHILIPS Model No:BN108C LED 20S PSU CDL WH or similar make of /Osram/Trilux/WIPRO)	2	each		
13.10	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	4	each		
13.11	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	2	each		
13.12	Supplying and fixing 20 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket	1	each		

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	outlet and complete with connections, testing and commissioning etc. as required.				
14	MCB DB's & MCB				
14.1	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
14.1.A.1	4 way , Double door	2	each		
14.2	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
14.2.A.1	4 way (4 + 12), Double door	1	each		
14.3	Supplying and fixing following amps rating, 240/415 volts, "C" series, following pole miniature circuit breaker suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
14.3.A.1	Single Pole (5 to 32 amp)	4	each		
14.3.A.2	32 Amp TP	1	each		
14.3.A.3	32 Amp TPN	1	each		
14.3.A.4	63 Amp TP	1	each		
14.3.A.5	63 Amp TPN	1	each		
14.4	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
14.4.A.1	100 amp, 16 kA, Four Pole	1	each		
14.4.A.2	63 amp, 16 kA, Four Pole	1	each		
14.4.A.3	160 amp, 16 kA, Four Pole	1	each		
15	EARTHING				
15.1	Earthing with G.I. earth plate 600 x 600 x 6 mm thick i/c accessories & pdg. masonry enclosure with cover plate having locking arrangement & watering pipe of 2.7 meter long etc, with charcoal or coke & salt complete as reqd.	4	set		
15.2	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	4	set		
15.3	P/F 25mm x 5mm GI strip in 40 mm dia GI pipe	10	mtr.		

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुबनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	from earth electrode including connection with brass nut, bolts, spring, washer excavation and re-filling etc as reqd.				
15.4	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	10	mtr.		
15.5	P/F 25 mm x 5 mm G.I. strip on surface or in recess for connection etc as reqd.	10	mtr.		
15.6	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	10	mtr.		
15.7	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	8	set		
15.8	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	20	mtr.		
15.9	Providing and fixing 6 SWG dia GI wire on surface or in recess for looping earthing along with the existing surface / recess conduit / submain / cable as reqd.	20	mtr.		
15.10	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required				
15.10.A.1	80 mm dia	5	mtr.		
15.10.A.2	100 mm dia	5	mtr.		
15.11	Supply and Installation of Highwall Air Condition of 5 star energy rating with inverter technology, with all copper piping to outdoor units with appropriate insulation complete	4	Tr.		

BOQ For Renovation Of Switchyard

SI. NO.	Description	Qty.	Unit.	Rate	Amount
1	EARTH WORK				
1.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge:				
1.1.A.1	All kinds of soil	33.60	sqm		
1.1.A.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	8	meter		
1.1.A.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	5	meter		
1.1.A.4	All kinds of soil	6	cum		
1.1.A.5	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of	50	sqm		

	rubbish up to a distance of 50 m outside the periphery of the area cleared.				
2	CONCRETE WORK				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2.1.A.1	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	16.80	cum		
2.2	Centering and shuttering including strutting, propping etc. and removal of form work for :				
2.2.A.1	Foundations, footings, bases for columns	31.2	sqm		
2.3	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	62.5	sqm		
2.4	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	125.5	per 50 kg cement		
2.5	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
2.5.A.1	All kinds of soil	144	sqm		
3	REINFORCED CEMENT CONCRETE				
3.1	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	6	meter		
4	BRICK WORK				
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
4.1.A.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	4.5	cum		
4.2	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
4.2.A.1	Cement mortar 1:6 (1 cement : 6 Coarse sand)	2.25	cum		
5	STEEL WORK				
5.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	124	kg		
6	FLOORING				
6.1	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the				

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand)				
6.1.A.1	Light shade pigment using white cement	16	sqm		
7	FINISHING				
7.1	15 mm cement plaster on rough side of single or half brick wall of mix:				
7.1.A.1	1:6 (1 cement: 6 coarse sand)	21	sqm		
7.2	20 mm cement plaster of mix :				
7.2.A.1	1:4 (1 cement: 4 coarse sand)	5	sqm		
7.3	6 mm cement plaster of mix :				
7.3.A.1	1:3 (1 cement : 3 fine sand)	2	sqm		
7.4	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	6	Per bag of 50 kg cement used in the mix		
7.5	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
7.5.A.1	Water thinnable cement primer	10	sqm		
7.6	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	24	sqm		
7.7	Applying priming coat:				
7.7.A	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :				
7.7.A.1	Two or more coats on new work	10	sqm		
7.7.B	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
7.7.B.1	Two or more coats on new work	9	sqm		
7.7.C	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	34	sqm		
8	CABLE LAYING				
8.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
8.1.A.1	Upto 120 sq. mm	15	meter		
8.2	H.T Termination				
8.2.A	Supply and making Indoor cable end jointing with cast resin compound, including lugs and other jointing materials for following size of 3 core, XLPE aluminium conductor cable of 11KV (UE)				

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुबनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	grade as required.				
8.2.A.1	3 C x 120 Sq.mm (11KV UE)	3	set		
8.3	Supply and making Outdoor cable end jointing with cast resin compund, including lugs and other jointing materials for following size of 3 core, XLPE aluminium conductor cable of 11KV (UE)grade as required.				
8.3.A.1	3 C x 120 Sq.mm (11KV UE)	1	set		
8.4	Supply & Installation of of 3Pole ,400Amps Heavy duty Horizontal type AB switch Supply of 95 sqmm insulated aluminum conductor	3	nos.		
8.5	Supply and Installation of 120sqmm Aluminum socket &PVC Insulated tape	12	nos.		
8.6	Repainting sand cast iron/ centrifugally cast iron (spun) iron, soil, waste, vent pipes and fittings with one coat of synthetic enamel paint of any colour such as chocolate, grey or buff etc :				
8.6.A.1	100 mm diameter pipe	80	meter		
8.6.A.2	75 mm diameter pipe	80	meter		
8.7	Supplying of Following Sizes of 1.1 kV Grade Multicore Aluminium Conductor XLPE Power Cable Insulated armoured cable conforming to IS:7098 (Part - I) or as per Relevant IS Code complete with all Amendments etc and should be NABL certified as required.				
8.7.A.1	3.5 C X 150 Sq.mm Al. XLPE arm.	15	meter		
8.7.A.2	3.5 C X 120 Sq.mm Al. XLPE arm.	18	meter		
8.7.A.3	3.5 C X 25 Sq.mm Al. XLPE arm.	28	meter		
8.8	LT Cable Laying				
8.8.A	Laying of One Number PVC Insulated And PVC Sheathed / XLPE Power Cable of 1.1 kV Grade of Following Size Direct in Ground Including Excavation, Sand Cushioning, Protective Covering and Refilling the Trench etc. as required.				
8.8.A.1	Above 35 sq. mm and upto 95 sq. mm	501	meter		
8.8.A.2	Above 95 sq. mm and upto 185 sq. mm	154	meter		
8.8.A.3	Supply & erection of 11 kv disc insulator for 11 kv overhead lines with galvanized insulator fittings, ball and socket type and complete with galvanized strain clamps, bolts, nuts, washers etc. as required.				
8.8.A.4	Supply & fitting of aluminum lugs above 35 sq.mm. and up to 300 sq.mm.				
9	EARTHING				
9.1	Earthing with G.I. earth plate 600 x 600 x 6 mm thick i/c accessories & pdg. masonry enclosure with cover plate having locking arrangement & watering pipe of 2.7 meter long etc, with charcoal or coke & salt complete as reqd.	2	Set		
9.2	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt	2	set		

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुवनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

	as required.				
9.3	P/F 25mm x 5mm GI strip in 40 mm dia GI pipe from earth electrode including connection with brass nut, bolts, spring, washer excavation and re-filling etc as reqd.	10	meter		
9.4	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	10	meter		
9.5	P/F 25 mm x 5 mm G.I. strip on surface or in recess for connection etc as reqd.	10	meter		
9.6	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	10	meter		
9.7	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	4	set		
9.8	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	12	meter		
9.9	Providing and fixing 6 SWG dia GI wire on surface or in recess for looping earthing along with the existing surface / recess conduit / submain / cable as reqd.	12	meter		
9.10	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required				
9.10.A.1	80 mm dia	2	meter		
9.10.A.2	100 mm dia	2	meter		
Total Amount (in Rs.)					

सिपेट :एस.ए.आर.पि.-एलएआरपीएम, भुबनेश्वर

ई-निविदा क्रमांक –CIPET:SARP-LARPM/RSPR/२०२१-२२/११, Dated-13-03-2022

DECLARATION

I.....son/daughter/wife of Shri/Smt.....
Proprietor/Principal Director/Authorised signatory of the agency mentioned above is competent to sign this declaration and execute this tender document.

I have carefully read and understood all the terms and conditions laid down in the E- tender and undertake to abide by them.

The information/documents furnished along with the above bid/application are true and authenticate to the best of my knowledge and belief. I am well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender/bid at any stage besides liabilities towards prosecution under appropriate law.

(Signature of the authorized person)

Name

Date

Place _____

Office seal