

PROJECT OPTCL ERSAMA & DUBURI
ITEM SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
SUBJECT BID SPECIFIC ATC

1.	BHEL Contact (Technical):
	For any technical clarification, please contact Mr. Akhilesh Kumar, Manager (TBEM). Contact No. 0120-674-8528; e-mail: akhileshk@bhel.in
2.	BHEL Contact (Commercial):
	For any commercial clarification , please contact Ms. Shipra Gupta, Dy. Manager (TBMM). Contact No. 0120-674-8609; e-mail: shipra@bhel.in
	BHEL shall place project wise separate purchase orders [i.e. Separate PO for Ersama and Duburi Substation]. Accordingly, all terms & conditions i.e. delivery period, Performance Security, Guarantee Period, Liquidated Damages etc. shall be dealt separately as per project specific PO.
3.	Terms of Payment:
	<p>[A] Payment for Supply:</p> <p>i) 90% of payment along with 100% GST & F&I shall be made within 45 days for MSE (Micro & Small Enterprises) / within 60 days for Medium Enterprises / within 90 days for non MSME suppliers from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:</p> <ul style="list-style-type: none"> • LR / GR duly endorsed by BHEL Site Official. • MRC • GST Compliant Tax Invoice • Packing List (Case-wise) • Copy of Transit Insurance Certificate from underwriters. • Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management • Guarantee Certificate • Performance Bank Guarantee (PBG) <p>ii) Balance 10% of payment shall be made within 45 days for MSE (Micro & Small Enterprises) / within 60 days for Medium Enterprises / within 90 days for non MSME suppliers from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:</p> <ul style="list-style-type: none"> • Claim Invoice • Certificate of successful completion of Services at Site issued by BHEL Site Official / Construction Management • Certificate of completion of final documentation as per Purchase Order / Technical Specification issued by BHEL Engineering Management <p>[B] Payment for Services at Site</p> <p>i) 70% of the Contract value against monthly progressive bills on pro-rata basis for unloading, storage and completion of erection as certified by BHEL Site Official with 45 days for MSE (Micro & Small Enterprises) / within 60 days for Medium Enterprises / within 90 days for non MSME suppliers from the date of receipt of GST Compliant Tax Invoice (Original +2 Copies)</p> <p>ii) 20% of the Contract value against monthly progressive bills on pro-rata basis for testing & successful commissioning as certified by BHEL Site Official within 45 days for MSE (Micro & Small Enterprises) / within 60 days for Medium Enterprises / within 90 days for non MSME suppliers from the date of receipt of GST Compliant Tax invoice in 3 sets (original + 2 copies)</p> <p>iii) 10% of the Contract value after Acceptance Test, Re-test (if any), PG Test (if any) and Handing Over as certified by BHEL Site Official within 45 days for MSE (Micro & Small</p>

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	<p>Enterprises) / within 60 days for Medium Enterprises / within 90 days for non MSME suppliers from the date of receipt of GST Compliant Tax invoice in 3 sets (original + 2 copies)</p> <p>Note: (a) Bills shall be submitted to BHEL TBG Noida office – Supply bills and Site/Sector office for Services bills for processing and payment. (b) It should be ensured that Tax Invoice complies with statutory requirements under GST law to enable BHEL to avail Input Tax Credit. (c) Payment of GST component shall be made only if vendor has deposited the Tax and credit for the same is reflected in GSTN (GST Network) (d) Copy of GST Registration Certificate(s) shall be also be attached with Tax Invoice.</p>
4.	Terms of Delivery:
	Ex-Works basis including P&F (Packing & Forwarding), F&I (Freight & Insurance) up to site is in the scope of bidder.
5.	Delivery Requirement:
	<p>(a) Supply: Within 34 Weeks (238 days) from the date of PO/input by BHEL as per Activity schedule [Annexure-II]. Delivery time is mentioned in bid document is 238 days from PO date for the purpose of creation of bid.</p> <p>(b) Services and ETC [Erection Testing and Commissioning]: Delivery time is mentioned in bid document is 343 days from PO date for the purpose of creation of bid. However, bidder to note that delivery time for Services work shall be as per Activity schedule i.e. within 15 Weeks (105 days) from the date of BHEL confirmation/ Readiness of fronts.</p> <p>In case, BHEL’s delivery requirement is not met by vendor(s), then a chance may be given to all such vendors to review their quoted delivery schedule in line with BHEL’s delivery requirement. However, if vendor fails to meet the requisite delivery plan, then BHEL reserves the right not to consider the offer of such vendor(s).</p>
6.	Prices:
	The quoted prices shall be on Firm basis. Price to be quoted as inclusive of GST. i.e. Ex-Works (Supply Main + Services + F&I) + GST on FOR destination basis.
7.	Reverse Auction:
	Bid to RA is applicable.
8.	Liquidated Damage for delayed Delivery:
	<p>If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.</p> <p>However, Liquidated Damage for delayed delivery shall be calculated separately for Supply & Services.</p>

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9.	Specification:
	Technical Specification No. TB-420A-316-015, Rev 00 is applicable. No permissible Technical Deviation has been envisaged. Bidders to quote as per Technical Specifications.
10.	Technical Pre-Qualification Requirement:
	Technical pre-qualifying requirement shall be as per Annexure-I .
11.	Manufacturing Quality Plan (MQP) and Inspection:
	Supplier to submit MQP to BHEL for approval by end customer. Inspection shall be carried out by Customer/ BHEL/ TPIA as per Customer's approved Quality Plan. For the same, Bidder(s) to submit QAP at contract stage for BHEL/end customer approval. Complete inspection cost to be borne by the bidder. For further details, please refer Annexure-X.
12.	Destination/ Delivery Location:
	400/220/132kV GIS Substation at Ersama, Paradeep, District Jagatsingha, Odishab PIN 754139 400 kV AIS Substation, New Duburi, District Jajpur, Odisha PIN 755026
13.	Guarantee Clause:
	The equipment/ material supplied and services rendered (if applicable) shall be guaranteed to be free from all defects and faults in design & engineering, material, workmanship & manufacture and in full conformity with the Purchase Order/ Contract, Technical Specifications & approved drawings/ data sheets, if any, for 18 months from the date of last delivery or up to 03.12.2025 whichever is later. The defective equipment/ material/ component shall be replaced free of cost at site. Freight & Insurance during transit shall also be in the scope of the supplier/ contractor. Any expenditure for dismantling and re-erection of the replaced equipment/ material/ component shall be to supplier's/ contractor's account. All replacements during the guarantee period shall be delivered at site promptly and satisfactorily within a period not more than 45 days from the date of reporting the defect/ rejection, etc. If the supplier/ contractor fails to replace the defective equipment/ material/ component within the time period mentioned above, the same shall be considered as breach of the contract and BHEL may proceed as per provision mentioned in this NIT without prejudice to any other rights under the contract. Latent Defect Warranty - The period of Latent Defect Warranty shall be 10 years reckoned from the date of completion of guarantee period commencing immediately after the satisfactory commissioning for the entire works. As per LOA, commissioning date 03.12.2024.
14.	Bid Security / Earnest Money Deposit (EMD) - Nil
15.	Performance Security- In addition to GeM GTC clause, following terms and condition shall be applicable:
	Performance security of 5% of total Contract value shall be submitted by the vendor within 30 days from the date of award of PO. "Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms and conditions defined in NIT / Contract, from the bills along with due interest."

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(A) Modes of deposit:

Performance security may be furnished in the following forms:

- (i) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of BHEL -TBG, Noida.

Bank Account details for submission of performance security through EFT mode.

NAME OF THE COMPANY	BHARAT HEAVY ELECTRICALS LTD
ADDRESS OF THE COMPANY	TRANSMISSION BUSINESS GROUP, 5TH FLOOR, BHEL TOWER, PLOT NO. 25, SECTOR-16A, NOIDA – 201301 (U.P.)
NAME OF BANK	STATE BANK OF INDIA
NAME OF BANK BRANCH	CAG-II NEW DELHI (17313)
CITY	NEW DELHI
ACCOUNT NUMBER	00000030206227732
ACCOUNT TYPE	CASH CREDIT
IFSC CODE	SBIN0017313

- (ii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. Bank Guarantee shall be submitted as per BHEL format.
- (iii) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the vendor, a/c BHEL).
- (iv) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of vendor furnishing the security and duly endorsed/ hypothecated/pledged, as applicable, in favour of BHEL).
- (v) Insurance Surety Bond.

Important Notes:

- (1) The performance security should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty/Guarantee obligations.
- (2) Performance security shall be refunded to the vendor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.
- (3) BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.
- (4) The Performance Security shall not carry any interest.
- (5) Value of the Bank Guarantee shall remain unchanged for any subsequent variations in Original Purchase Order value up to $\pm 10\%$. Beyond this variation of $\pm 10\%$, the Supplier shall arrange to enhance or may reduce the value of the Bank Guarantee accordingly for the total variation promptly.

(B) Forfeiture of performance security

The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the vendor.

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16.	Acceptance of Offer:
	<p>Acceptance of offer is subjected to following:</p> <ul style="list-style-type: none"> i) Approval of vendor by end customer. ii) Qualification of Technical PQR. iii) Techno-Commercial evaluation by BHEL. <p>Bidder's offer will be acceptable subject to final acceptance of vendor by ultimate customer as approved supplier.</p> <p>Bidder to submit following documents for arranging approval from customer-</p> <ul style="list-style-type: none"> a) Performance Certificate b) Supply experience c) ISO certificate d) Balance Sheet (last 3 years) <p>Any other documents (if required, as per customer)</p>
17.	Make in India:
	<p>For this procurement, the local content to categorize a supplier as Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 Dtd. 04.06.2020, issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT but before opening of part-II bids against this NIT.</p> <p>“Bidder to specify the percentage of local content as per the format of self-declaration for local content” as per Annexure-V.</p> <p>Minimum local content to qualify as a Class-I local supplier is 50%.</p> <p>“This tender is not a global tender and only Class-I suppliers as defined under the DPIIT Order No. P-45021/2/2017-PP (BE-II) Dtd. 04.06.2020 and subsequent orders are eligible to bid in this tender. Bids received from Class II & Non-local supplier shall be rejected.”</p>
18.	Compliance to GOI order for restrictions under Rule 144 (xi) of General Financial Rules (GFRS), 2017 (Annexure-XI):
	<p>Refer clause at Annexure-XI and Certification at Annexure-XII/ Annexure-XIII (whichever is applicable) regarding restrictions under Rule 144 (xi) of General Financial Rules (GFRs), 2017. Bidder to comply the clause and submit the certification. Non-compliance/ Non-submission of certification will lead to rejection of Offer.</p>
19.	MoP Circular (Annexure-XIV):
	<p>Bidder to comply the MOP circular dated 02-07-2020 (Annexure-XIV) and its subsequent amendment, if any, in prescribed format (Annexure-XV). Non-compliance/ Non-submission will lead to rejection of Offer (Not Applicable for cases where local content is 100%).</p>
20.	Variation in Contract Value and Quantities:
	<p>BHEL shall have the right to variation in quantities of items within +/- 25% of the total Purchase Order / Contract value at the time of placement of PO or award of Contract on overall basis for all amendments</p>

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	together within two years from the date of original Purchase Order. The purchaser shall have the right to increase or decrease quantity and scope up to the above extent of value and seller/contractor shall be bound to accept the same at the contracted prices without any escalation.
21. Unpriced Bid:	Vendor to furnish unpriced bid mentioning "Quoted" against each BOQ line item and % of GST quoted in tender as per Annexure-III .
22. Details of Bidder:	Bidder to submit their complete contact information details as per Annexure-IV .
23. Evaluation Criteria:	Evaluation shall be done on total cost to BHEL basis.
24. Deviations:	a) Technical Deviation: No Technical Deviation is envisaged. b) Commercial Deviation: No Commercial Deviation is envisaged.
25. Scope of work (ETC at site):	<p>The scope of work of the successful bidder / contractor shall comprise but not limited to the following:-</p> <p>25.1 Receipt of equipment / material at site, unloading, handling, transportation to storage area.</p> <p>25.2 Inspection / verification of equipment / material received for any shortage /damage after opening the packing / cases and intimating the same to BHEL /Owner and underwriters within the time period specified by BHEL /Underwriters and to strictly follow the procedures specified. Storage of equipment in open / indoor store to be provided by BHEL in line with the instructions of BHEL.</p> <p>25.3 Conservation / maintenance / up-keeping of the equipment / item in the store.</p> <p>25.4 Temporary lighting in stores and construction area wherever required for their work.</p> <p>25.5 Safety / Security of equipment / material.</p> <p>25.6 Transportation of equipment / material from store to erection site, erection of equipment / material in line with the drawings / instructions to be furnished by BHEL, testing, commissioning including PG test (if applicable) and handing over.</p> <p>25.7 Maintenance of associated equipment till handing over & any other activity necessary for completion of the job but not specifically mentioned in this specification.</p> <p>25.8 Unloading, transportation to storage area, storing, up-keeping and handing over of spare items / equipment.</p> <p>25.9 Safety, watch & ward of material at site which shall be sole responsibility of the Contractor.</p> <p>Note: In case unloading / watch & ward of material at site is not executed by the Contractor, BHEL reserve the right to get it executed with the available resources at the risk & cost of the Contractor.</p>

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26.	<p>TESTING AND COMMISSIONING at Site:</p> <p>26.1. All the electrical / mechanical test of the equipment & material and shall be arranged by the contractor as per standard specification / Field Quality Plan / Erection Manual / Directives of the Site Official / Owner. The contractor shall fill the check list for storage, erection, testing and commissioning of all their equipment as per BHEL systems to ensure proper quality of work.</p> <p>26.2 All the testing equipment required to carry out the site test for all their equipment or the erected equipment shall be arranged by the contractor at his own cost. However, necessary instructions and guidelines will be given by BHEL / Owner.</p> <p>26.3 The contractor shall be entirely responsible for the satisfactory erection and providing test equipment & skilled manpower for testing & commissioning of all equipment.</p> <p>26.4 Before charging, the system shall have to be approved by Statutory Govt. Authorities like Electrical Inspector other concerned agency and the contractor has to arrange approval for the same.</p>
27.	<p>CONSUMABLES:</p> <p>The contractor shall maintain adequate inventory of necessary consumables at site prior to erection so that timely completion of the works under the contract is not held up due to non-availability of consumables / spares.</p>
28.	<p>OVER RUN CHARGES:</p> <p>No over run charges are payable.</p>
29.	<p>IDLE LABOUR CHARGES:</p> <p>No idle labour charges will be admissible in the event of any stoppage of work resulting in the contractor's workmen being rendered idle due to any reason at any time.</p>
30.	<p>INSURANCE:</p> <p>The Contractor shall take insurance to cover his Tools and Plants, assets, workmen's compensation and third-party liabilities. The contractor shall make available the original insurance certificates to the Site Official for necessary verification before commencement of work.</p>
31.	<p>FACILITIES TO BE PROVIDED AT SITE BY THE CONTRACTOR:</p> <p>Watch and ward for the store and safe custody of the equipment / material in the scope of Contractor shall be his responsibility.</p> <p>It is the responsibility of the contractor to dismantle and take away all the material of his office accommodation as soon as the work is handed over to BHEL / Owner and clean the area of debris.</p>
32.	<p>REGULATION OF LOCAL AUTHORITIES & COMPLIANCE OF STATUTORY REQUIREMENTS:</p> <p>The contractor shall give to the local Governing Body, Police and other concerned Authorities all such notice as may be required under law.</p> <p>The contractor, as required, will obtain independent licence under The Contract Labour (Regulation and Abolition) Act, 1970 from the concerned authorities based on the certificate (Form-V) issued by the Principal Employer / Customer.</p> <p>In case Contractor is not registered with GST authorities of state where project is located , vendor shall have to obtain registration with GST Authorities of state .The vendor shall comply with all State and Central Laws / Acts, Statutory Rules, Regulations etc., as may be enacted by the Government during the tenure of the Contract and having in force and applicable to the Contract and nothing shall be done by</p>

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	<p>the Contractor in contravention of any Law / Act and / or Rules / Regulations, thereunder or any amendment thereof.</p> <p>Provisions of The Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 and The Building & Other Construction Workers Welfare Cess Act, 1996 shall also be applicable.</p> <p>The Contractor shall pay all taxes, fees, licence charges / deposits, duties, tolls, royalty, commissions or other charges which may be levied on account of any of his operations connected with the Contract. In case BHEL is constrained to make any of such payments, BHEL shall recover the same from the Contractor either from moneys due to him or otherwise as deemed fit.</p>
33.	<p>CONSTRUCTION ELECTRICITY:</p> <p>Chargeable at Single Point & all further distribution from the same for construction supply shall be made by the sub-contractor. (However, in case of failure of power due to any unavoidable circumstances, the sub-contractor shall make his own necessary arrangements like diesel generator sets etc. at his own cost so that progress of work is not affected and BHEL shall in no case be responsible for any delay in works because of non-availability of power.)</p>
34.	<p>CONSTRUCTION WATER:</p> <p>Free at Single Point & all further distribution from the same for construction supply shall be made by the sub-contractor. (However, in case of non-availability or inadequate availability of water for construction work, the contractor shall make his own arrangement at his own cost and the BHEL shall in no case be responsible for any delay in works because of non-availability or inadequate availability of water.)</p>
35.	<p>Breach of contract, remedies and termination</p> <p>(A) Breach of contract and Termination:</p> <p>Following conditions shall be considered as breach of contract:</p> <ol style="list-style-type: none"> a) Non-supply of material/ non-completion of work by the vendor within scheduled delivery/ completion period as per contract or as extended from time to time. b) The vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period. c) The vendor delivers equipment/ material not of the contracted quality. d) The vendor fails to replace the defective equipment/ material/ component as per guarantee clause. e) Withdrawal from or abandonment of the work by the vendor before completion as per contract. f) Assignment, transfer, subletting of Contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL. g) Non-compliance to any contractual condition or any other default attributable to Contractor/ Vendor. h) Termination of Contract on account of any other reason(s) attributable to Vendor. <p>In case of breach of contract, BHEL reserve the right to terminate the Purchase Order/ Contract either in whole or in part thereof without compensation to the vendor.</p> <p>(B) Remedies for breach of contract:</p>

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	<p>In case of Breach of Contract, BHEL shall recover 10% amount of the contract value from the vendor in following manners:</p> <p>(i) Forfeiture/ encashment of Security instruments (Performance security, EMD etc.) available against the said contract/ other financial remedies (i.e. available bills of the vendor, retention amount etc. with BHEL TBG or any other units of BHEL.</p> <p>(ii) Demand notice for deposit of balance recovery amount shall sent to the vendor, if security instruments or financial remedies are insufficient to affect the complete recovery.</p> <p>(iii) In case recovery is not possible from security instruments or from financial remedies mentioned above, legal remedies shall be pursued.</p> <p>Important Notes:</p> <p>(1) Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p>
36.	RXIL (TReDS) Platform:
	TBG is registered with RXIL (TReDS) platform. MSME bidders are requested to get registered with RXIL (TReDS) platform to avail the facility as per GoI guidelines.
37.	<p>Bidder to submit sealed and signed copy of the following while uploading bid in GeM portal:</p> <p>a) Bid Specific ATC: This document.</p> <p>b) Annexure-I: Technical Pre-Qualification Requirement along with supporting documents.</p> <p>c) Annexure-II: Activity Schedule</p> <p>d) Annexure-III: Unpriced Bid</p> <p>e) Annexure-IV: Contact Details of Bidder</p> <p>f) Annexure-V: Local Content Self-Certification</p> <p>g) Annexure-VI: Schedule of Commercial Deviation</p> <p>h) Annexure-VII: Schedule of Technical Deviation</p> <p>i) Annexure-VIII: Performance Security format</p> <p>j) Annexure-IX: Checklist for bills</p> <p>k) Annexure-X: Inspection – OPTCL</p> <p>l) Annexure-XI to XIII: Circular and Compliance to Government of India Order OM NO.6/18/2019-PPD Dtd. 23.07.2020 regarding restrictions under rule 144 (xi) of the General Financial Rules (GFRs), 2017</p> <p>m) Annexure-XIV to XV: Circular and Compliance Format of MOP</p> <p>Note: In case of non-receipt of above documents, the bidder is liable for rejection.</p>

NOTE –

1. PO for main items & Work order for Service works will be issued separately for Execution purpose.
2. All other terms & conditions shall be as per GTC of GeM

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :

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ANNEXURE-I

TECHNICAL PRE QUALIFICATION REQUIREMENT

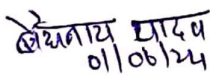
Name of Project: 400/220 kV GIS SUB STATION AT ERSAMA, PARADEEP, ODISHA

Name of Customer: ODISHA POWER TRANSMISSION CORPORATION LIMITED

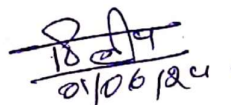
Name of Item: ILLUMINATION SYSTEM

TECHNICAL PRE-QUALIFICATION REQUIREMENT	
The bidder should have experience of design, supply and ETC of Illumination System for at least one project of state electricity boards/ central utilities/ state or central transmission utilities/ industrial installations in last 10 years as on original scheduled date of techno-commercial bid opening of this tender.	
In support of the same the bidder should submit copy of Purchase order/work order along with completion certificate from buyer/ customer.	

SUPPORTING DOCUMENTS TO BE ATTACHED		
Sl. No.	Required Criteria	Supporting Documents to be submitted by bidder along with technical bid
1	Design	Approved design documents and drawings of indoor & outdoor areas, duly approved by customer/ consultant.
2	Supply	Purchase Order/ Work order copy defining the scope/ Material receipt certificate/ dispatch note documents.
3	Erection, Testing & Commissioning (ETC)	Pre-commissioning report / commissioning report and final work completion or handing over report/certificate for complete illumination system.


01/06/24

PREPARED BY


01/06/24

REVIEWED BY


7.6.24

APPROVED BY

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TECHNICAL PRE QUALIFICATION REQUIREMENT

Name of Project: 400KV AIS SUBSATION EXTENSION AT NEW DUBURI, ODISHA

Name of Customer: ODISHA POWER TRANSMISSION CORPORATION LIMITED

Name of Item: ILLUMINATION SYSTEM

TECHNICAL PRE-QUALIFICATION REQUIREMENT

The bidder should have experience of design, supply and ETC of Illumination System for at least one project of state electricity boards/ central utilities/ state or central transmission utilities/ industrial installations in the last 10 years as on the original scheduled date of technical bid opening of this tender.

SUPPORTING DOCUMENTS TO BE ATTACHED

Sl. No.	Required Criteria	Supporting Documents to be submitted by bidder along with technical bid
1	Design	Approved design documents and drawings of indoor & outdoor areas, duly approved by customer/ consultant.
2	Supply	Purchase Order copy defining the scope & value with material receipt certificate/ dispatch note documents.
3	Erection, Testing & Commissioning (ETC)	Handing over report/ completion certificate/ other document indicating execution/ completion of work.

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10/11/24

PREPARED BY

SA
10/07/20.

REVIEWED BY

Kimshapil
10.7.24.

APPROVED BY

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ANNEXURE-II

ACTIVITY SCHEDULE

SN	ACTIVITY	ACTIVITY TIME – FOR ERSAMA [in weeks]	ACTIVITY TIME – FOR DUBURI [in weeks]	REMARKS
1.	PO / Input receipt from BHEL	1	1	BHEL SCOPE
2.	Submission of Documents necessary for getting manufacturing clearance like Drawings, Data sheet MQP etc.	4	4	SUPPLIER SCOPE
3.	Manufacturing Clearance	4	4	BHEL SCOPE
4.	Manufacturing time and raising of Inspection Call	20	20	SUPPLIER SCOPE
5.	BHEL/Customer Inspection & Dispatch Clearance	2	2	BHEL SCOPE
6.	Dispatch	2	2	SUPPLIER SCOPE
7.	Receipt at site	1	1	SUPPLIER SCOPE
	SUPPLY Activity Time:	34 Weeks	34 Weeks	
8.	ETC at site (Starting from clearance from site)	15	15	SUPPLIER SCOPE

1. Inspection call to be raised by vendor 1 week in advance.
2. Supplier must ensure the completeness and correctness of the requisite documents before submission for approval. Delay in approval on account of incomplete / inadequate information shall be the responsibility of supplier.
3. Inspection call should be given in the prescribed format only. Inspection calls not in the prescribed format shall not be entertained.
4. Vendor to ensure resubmission of drawings / documents within 1 Week from the date of comment given by BHEL

Signature of the authorized representative of

Place :

Date :

Bidder's Name :

Designation :

Company Seal :

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ANNEXURE-III

UNPRICED BID

SR. NO	ITEM DESCRIPTION	GEM BOQ	Item code / make	Qty.	UNIT	Unit Rate (including P&F and F&I)	TOTAL Rate (including P&F and F&I)	GST RATE (%)	GST AMOUNT ON TOTAL RATE (INR)	Total amount including GST
1	Supply item- Outdoor Lighting Panel/ Switchyard AC Console (Normal & Emergency)- OLP type	GEM BOQ Item Number 1	item1 OF ANNEXURE-BOQ - SUPPLY ERSAMA	6	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
2	Supply item- Indoor Lighting Panel (Normal & Emergency)- ILP type		item2 OF ANNEXURE-BOQ - SUPPLY ERSAMA	7	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
3	Supply item- DC Emergency Lighting Panel/ Distribution Board- DCLP type		item3 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
4	Supply item- Indoor Receptacle Board/ Panel- IRP1 type		item4 OF ANNEXURE-BOQ - SUPPLY ERSAMA	8	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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5	Supply item- Indoor Receptacle Board/ Panel- IRP2 type	item5 OF ANNEXURE-BOQ - SUPPLY ERSAMA	2	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
6	Supply item- Outdoor Street Lighting Panel/ Outdoor Kiosk- SLP type	item6 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	NO	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
7	Supply item- Lighting Panel for Colony Lighting/ Outdoor Kiosk- CLP type	item7 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	NO	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
8	Supply item- Switchyard Receptacle Board for Transformer Oil Filtration, RQ type	item8 OF ANNEXURE-BOQ - SUPPLY ERSAMA	2	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
9	Supply item- Outdoor Receptacle- RP 1 type	item9 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
10	Outdoor Receptacle- RP 2 type	item10 OF ANNEXURE-BOQ - SUPPLY ERSAMA	3	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
11	Supply item- Outdoor Receptacle- RO type	item11 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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12	Supply item- Receptacle 5/15A (Decorative)- RI type	item12 OF ANNEXURE-BOQ - SUPPLY ERSAMA	40	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
13	Supply item- Receptacle 20A (Industrial)- RB type	item13 OF ANNEXURE-BOQ - SUPPLY ERSAMA	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
14	Supply item- Receptacle 20A (Industrial) (Flameproof)- RB type	item14 OF ANNEXURE-BOQ - SUPPLY ERSAMA	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
15	Supply item- Outdoor Junction Box	item15 OF ANNEXURE-BOQ - SUPPLY ERSAMA	30	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
16	Supply item- 6 Way MCB Distribution Box for power distribution in quarters	item16 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
17	Supply item- 4 Way MCB Distribution Box or power distribution in quarters	item17 OF ANNEXURE-BOQ - SUPPLY ERSAMA	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
18	Supply item- 150 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories	item18 OF ANNEXURE-BOQ - SUPPLY ERSAMA	100	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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19	Supply item- 250 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories	item19 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
20	Supply item- 40 Mtrs high Monopole Lighting cum Lightning Mast including LED lighting fixtures with control gear panel etc suitable for wind zone-VI. The lights to be controlled by lux meter for variable lux output of the luminaire as per ambient light. (Galvanization thickness shall be minimum 910gm/ sqm as these are to be installed in coastal area).	item20 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	Nos	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
21	Supply item- 100 W LED LIGHTING FIXTURES including LAMPS of reputed make (Philips/ CGL/ Bajaj) for Street Light.	item21 OF ANNEXURE-BOQ - SUPPLY ERSAMA	60	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
22	Supply item- Street Lighting Pole including JB- A1 type	item22 OF ANNEXURE-BOQ - SUPPLY ERSAMA	60	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
23	Supply item- 35-40 W Post top LED Lantern (decorative type lighting fixture including lamp of reputed make (Philips/ CGL/ Bajaj) for Street Light.	item23 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
24	Supply item- Post Top lantern Lighting Pole including JB- E1 type	item24 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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25	Supply item- Recess mounted 2X2 LED Luminaire, 36-40 W	item25 OF ANNEXURE-BOQ - SUPPLY ERSAMA	170	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
26	Supply item- Recessed mounted circular LED downlight luminaire	item26 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
27	Supply item- Surface mounted circular LED downlight luminaire	item27 OF ANNEXURE-BOQ - SUPPLY ERSAMA	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
28	Supply item- Surface mounted 2X2 LED Luminaire, 36-40 W	item28 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
29	Supply item- Surface mounted Aluminium linear LED Batten, 36-40 W	item29 OF ANNEXURE-BOQ - SUPPLY ERSAMA	200	nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
30	Supply item- Indoor High Bay Industrial type LED fixture with luminaire and integral driver suitable for GIS Hall operating floor (mounting height >10m)	item30 OF ANNEXURE-BOQ - SUPPLY ERSAMA	50	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
31	Supply item- Indoor type Corrosion proof, totally enclosed LED fixture with luminaire and integral driver suitable for battery room	item31 OF ANNEXURE-BOQ - SUPPLY ERSAMA	40	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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32	Supply item- Recessed DC Downlighter for False Ceiling Areas	item32 OF ANNEXURE-BOQ - SUPPLY ERSAMA	28	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
33	Supply item- Surface mounted DC Industrial bulkhead lighting fixture for Non-false Ceiling Areas	item33 OF ANNEXURE-BOQ - SUPPLY ERSAMA	40	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
34	Supply item- Portable emergency light	item34 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
35	Supply item- Exit Sign Board	item35 OF ANNEXURE-BOQ - SUPPLY ERSAMA	18	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
36	Supply item- Aviation Light for High Mast	item36 OF ANNEXURE-BOQ - SUPPLY ERSAMA	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
37	Supply item- Occupancy based Infra Red Sensors	item37 OF ANNEXURE-BOQ - SUPPLY ERSAMA	15	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
38	Supply item- Switchboard- S-1 type	item38 OF ANNEXURE-BOQ - SUPPLY ERSAMA	50	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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39	Supply item- Switchboard- S-2 type	item39 OF ANNEXURE-BOQ - SUPPLY ERSAMA	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
40	Supply item- Switchboard- S-3 type	item40 OF ANNEXURE-BOQ - SUPPLY ERSAMA	7	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
41	Supply item- Switchboard- S-4 type	item41 OF ANNEXURE-BOQ - SUPPLY ERSAMA	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
42	Supply item- Switchboard- S-5 type	item42 OF ANNEXURE-BOQ - SUPPLY ERSAMA	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
43	Supply item- Exhaust fans- 600 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen for Toilets	item43 OF ANNEXURE-BOQ - SUPPLY ERSAMA	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
44	Supply item- Exhaust fans- 1000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen	item44 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
45	Supply item- Exhaust fans- 1500 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen	item45 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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46	Supply item- Exhaust fans- 2000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen	item46 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
47	Supply item- Ceiling fans 1200mm sweep with electronic regulator, fan hook, suspension rod etc.	item47 OF ANNEXURE-BOQ - SUPPLY ERSAMA	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
48	Supply item- Wall mounted fans 400mm sweep with fixing arrangement	item48 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
49	Supply item- Galvanized rigid conduit of 20mm size with accessories	item49 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
50	Supply item- Galvanized rigid conduit of 25mm size with accessories	item50 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
51	Supply item- Galvanized heavy duty steel conduit of 25mm size with accessories with additional epoxy coating for corrosive areas	item51 OF ANNEXURE-BOQ - SUPPLY ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
52	Supply item- Galvanized rigid conduit of 40mm size with accessories	item52 OF ANNEXURE-BOQ - SUPPLY ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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53	Supply item- 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC	item53 OF ANNEXURE-BOQ - SUPPLY ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
54	Supply item- PVC conduit of 20mm size with accessories	item54 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4800	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
55	Supply item- PVC conduit of 25mm size with accessories	item55 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
56	Supply item- PVC conduit of 40mm size with accessories	item56 OF ANNEXURE-BOQ - SUPPLY ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
57	Supply item- 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item57 OF ANNEXURE-BOQ - SUPPLY ERSAMA	4500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
58	Supply item- 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item58 OF ANNEXURE-BOQ - SUPPLY ERSAMA	5000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
59	Supply item- 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item59 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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60	Supply item- 1C, 6 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item60 OF ANNEXURE-BOQ - SUPPLY ERSAMA	750	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
61	Supply item- 2C, 2.5 sqmm PVC insulated stranded Cu. Wire	item61 OF ANNEXURE-BOQ - SUPPLY ERSAMA	500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
62	Supply item- 1C, 10 sqmm PVC insulated stranded Al. Wire	item62 OF ANNEXURE-BOQ - SUPPLY ERSAMA	250	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
63	Supply item- Earthing Material- 25x6mm GI Flat	item63 OF ANNEXURE-BOQ - SUPPLY ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
64	Supply item- Earthing Material- 3m , 20mm dia ms rod electrode	item64 OF ANNEXURE-BOQ - SUPPLY ERSAMA	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
65	Supply item- Earthing Material - GI wire for Earthing of size 8 SWG	item65 OF ANNEXURE-BOQ - SUPPLY ERSAMA	2000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
66	Supply item- Earthing Material - GI wire for Earthing of size 16 SWG	item66 OF ANNEXURE-BOQ - SUPPLY ERSAMA	6000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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67	Supply item- Temperature Transducer	item67 OF ANNEXURE-BOQ - SUPPLY ERSAMA	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
68	Supply item- Telephone points, single outlet telephone socket and accessories	item68 OF ANNEXURE-BOQ - SUPPLY ERSAMA	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
69	Supply item- Telephone Junction Box suitable for 20 pair Indoor type	item69 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
70	Supply item- 2 wire telephone cable (ISI marked)	item70 OF ANNEXURE-BOQ - SUPPLY ERSAMA	200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
71	Supply item- LAN points incudiung accessories	item71 OF ANNEXURE-BOQ - SUPPLY ERSAMA	5	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
72	Supply item- Supply of LAN Cable	item72 OF ANNEXURE-BOQ - SUPPLY ERSAMA	200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
73	Supply item- PORTABLE ALUMINIUM LADDER EXTENDABLE TYPE OF ADEQUATE HEIGHT TO BE USED FOR MAINTENANCE OF EQUIPMENT INSIDE SWITCH YARD	item73 OF ANNEXURE-BOQ - SUPPLY ERSAMA	2	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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74	Supply item- CARTWHEEL MOUNTED ALUMINIUM LADDER OF ADEQUATE HEIGHT TO BE USED FOR MAINTENANCE OF EQUIPMENT		item74 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
75	Supply item- Erection hardware for indoor like 3 way circular J.B.(20mm and 25mm), 4 way circular J.B.(20mm and 25mm), 90deg Inspection Bend (20mm and 25mm), 90deg Normal Bend (20mm and 25mm), Heavy duty, Saddle with base (20mm and 25mm), Heavy duty, Saddle without base (20mm and 25mm), M4X25mm, steel screw with nut and washer, check nut/lock nut (20mm and 25mm), PVC Rawl plug, 6mm, Wooden screw, 35mm, Earth clip/clamp (20mm and 25mm), Cleat fabrication out of 25x6mm M.S. flat (for hanging conduit in false ceiling areas, Anchor fastner (M10x75mm for cleats, M12x75mm for lighting panels), Rubber bush (20mm and 25mm), 20mm PVC, flexible conduit, 25mm, PVC conduit, Coupling, Swing out bracket, 20mm, Heavy duty, ball socket, Machine screw (for fixing surface mounting fixtures on circular J.B.), PVC closure (20mm and 25mm), Reducer (20mm and 25mm), GI wire/ FRLSH cu wire for earthing, lugs & glands for wires/cables, indoor junction box etc, as required, for completion of supply for switch yard indoor illumination system	GEM BOQ Item Number 2	item75 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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76	Supply item- Erection hardwares for outdoor like 20x1.5mm Aluminium flat, M12x40mm, GI Bolt with nut and washer for fixing outdoor lighting panels, M6x30mm, GI Bolt with nut and washer for fixing control gear boxes, M8x30mm, GI Bolt with nut and washer for fixing outdoor JBs, SLP, M10x35mm, GI Bolt with nut and washer for fixing outdoor lighting fixtures, Earth wire from JB to lighting fixtures, Mounting brackets for outdoor lighting fixtures, GI wire for earthing, lugs & glands for wires/ cables etc, as required, for completion of supply for switch yard outdoor illumination system	GEM BOQ Item Number 3	item76 OF ANNEXURE-BOQ - SUPPLY ERSAMA	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
77	Service Item- Outdoor Lighting Panel/ Switchyard AC Console (Normal & Emergency)- OLP type	GEM BOQ Item Number 4	item1 OF ANNEXURE-BOQ - SERVICES ERSAMA	6	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
78	Service Item- Indoor Lighting Panel (Normal & Emergency)- ILP type		item2 OF ANNEXURE-BOQ - SERVICES ERSAMA	7	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
79	Service Item- DC Emergency Lighting Panel/ Distribution Board- DCLP type		item3 OF ANNEXURE-BOQ - SERVICES ERSAMA	4	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
80	Service Item- Indoor Receptacle Board/ Panel- IRP1 type		item4 OF ANNEXURE-BOQ - SERVICES ERSAMA	8	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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81	Service Item- Indoor Receptacle Board/ Panel- IRP2 type		item5 OF ANNEXURE- BOQ - SERVICES ERSAMA	2	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
82	Service Item- Outdoor Street Lighting Panel/ Outdoor Kiosk- SLP type		item6 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	NO	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
83	Service Item- Lighting Panel for Colony Lighting/ Outdoor Kiosk- CLP type		item7 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	NO	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
84	Service Item- Outdoor Receptacle- RP 1 type		item8 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
85	Service Item- Outdoor Receptacle- RP 2 type		item9 OF ANNEXURE- BOQ - SERVICES ERSAMA	3	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
86	Service Item- Outdoor Receptacle- RO type		item10 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	NOS	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
87	Service Item- Receptacle 5/15A (Decorative)- RI type		item11 OF ANNEXURE- BOQ - SERVICES ERSAMA	40	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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88	Service Item- Receptacle 20A (Industrial)- RB type		item12 OF ANNEXURE- BOQ - SERVICES ERSAMA	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
89	Service Item- Receptacle 20A (Industrial) (Flameproof)- RB type		item13 OF ANNEXURE- BOQ - SERVICES ERSAMA	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
90	Service Item- Outdoor Junction Box		item14 OF ANNEXURE- BOQ - SERVICES ERSAMA	30	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
91	Service Item- 6 Way MCB Distribution Box for power distribution in quarters		item15 OF ANNEXURE- BOQ - SERVICES ERSAMA	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
92	Service Item- 4 Way MCB Distribution Box or power distribution in quarters		item16 OF ANNEXURE- BOQ - SERVICES ERSAMA	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
93	Service Item- 150 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories		item17 OF ANNEXURE- BOQ - SERVICES ERSAMA	100	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
94	Service Item- 250 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories		item18 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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95	Service Item- 40 Mtrs high Monopole Lighting cum Lightning Mast including LED lighting fixtures with control gear panel etc suitable for wind zone-VI. The lights to be controlled by lux meter for variable lux output of the luminaire as per ambient light. (Galvanization thickness shall be minimum 910gm/ sqm as these are to be installed in coastal area).		item19 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Nos	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
96	Service Item- 100 W LED LIGHTING FIXTURES including LAMPS of reputed make (Philips/ CGL/ Bajaj) for Street Light.		item20 OF ANNEXURE- BOQ - SERVICES ERSAMA	60	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
97	Service Item- Street Lighting Pole including JB- A1 type		item21 OF ANNEXURE- BOQ - SERVICES ERSAMA	60	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
98	Service Item- 35-40 W Post top LED Lantern (decorative type lighting fixture including lamp of reputed make (Philips/ CGL/ Bajaj) for Street Light.		item22 OF ANNEXURE- BOQ - SERVICES ERSAMA	4	SET	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
99	Service Item- Post Top lantern Lighting Pole including JB- E1 type		item23 OF ANNEXURE- BOQ - SERVICES ERSAMA	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
100	Service Item- Recess mounted 2X2 LED Luminaire, 36-40 W		item24 OF ANNEXURE- BOQ - SERVICES ERSAMA	170	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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101	Service Item- Recessed mounted circular LED downlight luminaire		item25 OF ANNEXURE- BOQ - SERVICES ERSAMA	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
102	Service Item- Surface mounted circular LED downlight luminaire		item26 OF ANNEXURE- BOQ - SERVICES ERSAMA	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
103	Service Item- Surface mounted 2X2 LED Luminaire, 36-40 W		item27 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
104	Service Item- Surface mounted Aluminium linear LED Batten, 36-40 W		item28 OF ANNEXURE- BOQ - SERVICES ERSAMA	200	nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
105	Service Item- Indoor High Bay Industrial type LED fixture with luminaire and integral driver suitable for GIS Hall operating floor (mounting height > 10 m)		item29 OF ANNEXURE- BOQ - SERVICES ERSAMA	50	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
106	Service Item- Indoor type Corrosion proof, totally enclosed LED fixture with luminaire and integral driver suitable for battery room		item30 OF ANNEXURE- BOQ - SERVICES ERSAMA	40	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
107	Service Item- Recessed DC Downlighter for False Ceiling Areas		item31 OF ANNEXURE- BOQ - SERVICES ERSAMA	28	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT OPTCL ERSAMA & DUBURI
ITEM SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
SUBJECT BID SPECIFIC ATC

108	Service Item- Surface mounted DC Industrial bulkhead lighting fixture for Non-false Ceiling Areas		item32 OF ANNEXURE- BOQ - SERVICES ERSAMA	40	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
109	Service Item- Exit Sign Board		item33 OF ANNEXURE- BOQ - SERVICES ERSAMA	18	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
110	Service Item- Aviation Light for High Mast		item34 OF ANNEXURE- BOQ - SERVICES ERSAMA	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
111	Service Item- Occupancy based Infra Red Sensors		item35 OF ANNEXURE- BOQ - SERVICES ERSAMA	15	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
112	Service Item- Switchboard- S-1 type		item36 OF ANNEXURE- BOQ - SERVICES ERSAMA	50	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
113	Service Item- Switchboard- S-2 type		item37 OF ANNEXURE- BOQ - SERVICES ERSAMA	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
114	Service Item- Switchboard- S-3 type		item38 OF ANNEXURE- BOQ - SERVICES ERSAMA	7	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
SUBJECT **BID SPECIFIC ATC**

115	Service Item- Switchboard- S-4 type		item39 OF ANNEXURE- BOQ - SERVICES ERSAMA	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
116	Service Item- Switchboard- S-5 type		item40 OF ANNEXURE- BOQ - SERVICES ERSAMA	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
117	Service Item- Exhaust fans- 600 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen for Toilets		item41 OF ANNEXURE- BOQ - SERVICES ERSAMA	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
118	Service Item- Exhaust fans- 1000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen		item42 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
119	Service Item- Exhaust fans- 1500 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen		item43 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
120	Service Item- Exhaust fans- 2000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen		item44 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
121	Service Item- Ceiling fans 1200mm sweep with electronic regulator, fan hook, suspension rod etc.		item45 OF ANNEXURE- BOQ - SERVICES ERSAMA	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
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122	Service Item- Wall mounted fans 400mm sweep with fixing arrangement		item46 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
123	Service Item- Galvanized rigid conduit of 20mm size with accessories		item47 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
124	Service Item- Galvanized rigid conduit of 25mm size with accessories		item48 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
125	Service Item- Galvanized heavy duty steel conduit of 25mm size with accessories with additional epoxy coating for corrosive areas		item49 OF ANNEXURE- BOQ - SERVICES ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
126	Service Item- Galvanized rigid conduit of 40mm size with accessories		item50 OF ANNEXURE- BOQ - SERVICES ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
127	Service Item- 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC		item51 OF ANNEXURE- BOQ - SERVICES ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
128	Service Item- PVC conduit of 20mm size with accessories		item52 OF ANNEXURE- BOQ - SERVICES ERSAMA	4800	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
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129	Service Item- PVC conduit of 25mm size with accessories		item53 OF ANNEXURE- BOQ - SERVICES ERSAMA	1500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
130	Service Item- PVC conduit of 40mm size with accessories		item54 OF ANNEXURE- BOQ - SERVICES ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
131	Service Item- 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.		item55 OF ANNEXURE- BOQ - SERVICES ERSAMA	4500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
132	Service Item- 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.		item56 OF ANNEXURE- BOQ - SERVICES ERSAMA	5000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
133	Service Item- 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.		item57 OF ANNEXURE- BOQ - SERVICES ERSAMA	1000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
134	Service Item- 1C, 6 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.		item58 OF ANNEXURE- BOQ - SERVICES ERSAMA	750	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
135	Service Item- 2C, 2.5 sqmm PVC insulated stranded Cu. Wire		item59 OF ANNEXURE- BOQ - SERVICES ERSAMA	500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT OPTCL ERSAMA & DUBURI
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136	Service Item- 1C, 10 sqmm PVC insulated stranded Al. Wire		item60 OF ANNEXURE- BOQ - SERVICES ERSAMA	250	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
137	Service Item- Earthing Material- 25x6mm GI Flat		item61 OF ANNEXURE- BOQ - SERVICES ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
138	Service Item- Earthing Material- 3m , 20mm dia ms rod electrode		item62 OF ANNEXURE- BOQ - SERVICES ERSAMA	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
139	Service Item- Earthing Material - GI wire for Earthing of size 8 SWG		item63 OF ANNEXURE- BOQ - SERVICES ERSAMA	2000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
140	Service Item- Earthing Material - GI wire for Earthing of size 16 SWG		item64 OF ANNEXURE- BOQ - SERVICES ERSAMA	6000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
141	Service Item- Temperature Transducer		item65 OF ANNEXURE- BOQ - SERVICES ERSAMA	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
142	Service Item- Telephone points, single outlet telephone socket and accessories		item66 OF ANNEXURE- BOQ - SERVICES ERSAMA	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
SUBJECT **BID SPECIFIC ATC**

143	Service Item- Telephone Junction Box suitable for 20 pair Indoor type		item67 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
144	Service Item- 2 wire telephone cable (ISI marked)		item68 OF ANNEXURE- BOQ - SERVICES ERSAMA	200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
145	Service Item- LAN points incudiung accessories		item69 OF ANNEXURE- BOQ - SERVICES ERSAMA	5	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
146	Service Item- Laying of LAN Cable		item70 OF ANNEXURE- BOQ - SERVICES ERSAMA	200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT OPTCL ERSAMA & DUBURI
ITEM SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
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147	<p>Service Item- Erection hardwares for indoor like 3 way circular J.B.(20mm and 25mm), 4 way circular J.B.(20mm and 25mm), 90deg Inspection Bend (20mm and 25mm), 90deg Normal Bend (20mm and 25mm), Heavy duty, Saddle with base (20mm and 25mm), Heavy duty, Saddle without base (20mm and 25mm), M4X25mm, steel screw with nut and washer, check nut/lock nut (20mm and 25mm), PVC Rawl plug, 6mm, Wooden screw, 35mm, Earth clip/clamp (20mm and 25mm), Cleat fabrication out of 25x6mm M.S. flat (for hanging conduit in false ceiling areas, Anchor fastner (M10x75mm for cleats, M12x75mm for lighting panels), Rubber bush (20mm and 25mm), 20mm PVC, flexible conduit, 25mm, PVC conduit, Coupling, Swing out braket, 20mm, Heavy duty, ball socket, Machine screw (for fixing surface mounting fixtures on circular J.B.), PVC closure (20mm and 25mm), Reducer (20mm and 25mm), GI wire/ FRLSH cu wire for earthing, lugs & glands for wires/cables, indoor junction box etc, as required, for completion of supply for switch yard indoor illumination system</p>	<p>item71 OF ANNEXURE- BOQ - SERVICES ERSAMA</p>	1	Lot	Quoted	Quoted	<p>Quoted Mention GST % Quoted</p>	Quoted	Quoted
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PROJECT OPTCL ERSAMA & DUBURI
ITEM SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
SUBJECT BID SPECIFIC ATC

148	Service Item- Erection hardwares for outdoor like 20x1.5mm Aluminium flat, M12x40mm, GI Bolt with nut and washer for fixing outdoor lighting panels, M6x30mm, GI Bolt with nut and washer for fixing control gear boxes, M8x30mm, GI Bolt with nut and washer for fixing outdoor JB's, SLP, M10x35mm, GI Bolt with nut and washer for fixing outdoor lighting fixtures, Earth wire from JB to lighting fixtures, Mounting brackets for outdoor lighting fixtures, GI wire for earthing, lugs & glands for wires/ cables etc, as required, for completion of ETC works for switch yard outdoor illumination system		item72 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
149	Service Item- Lux Level Measurement and demonstration to BHEL/ customer at site including arrangement of necessary test equipment on returnable basis		item73 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
150	Service Item- 2C, 2.5 sq mm PVC insulated, Armoured Cu. Cable (Free issue item by BHEL)		item74 OF ANNEXURE- BOQ - SERVICES ERSAMA	3000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
151	Service Item- 2C, 6 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item75 OF ANNEXURE- BOQ - SERVICES ERSAMA	500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
152	Service Item- 4C, 6 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item76 OF ANNEXURE- BOQ - SERVICES ERSAMA	3000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
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153	Service Item- 4C, 16 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item77 OF ANNEXURE-BOQ - SERVICES ERSAMA	1000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
154	Service Item- 3.5C, 35 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item78 OF ANNEXURE-BOQ - SERVICES ERSAMA	500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
155	Service Item- 3.5C, 70 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item79 OF ANNEXURE-BOQ - SERVICES ERSAMA	500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
156	Service Item- 3.5C, 120 sq mm XLPE insulated, Armoured Al. Cable (Free issue item by BHEL)		item80 OF ANNEXURE-BOQ - SERVICES ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
157	Service Item- 3.5C, 185 sq mm XLPE insulated, Armoured Al. Cable (Free issue item by BHEL)		item81 OF ANNEXURE-BOQ - SERVICES ERSAMA	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
158	Service Item- Laying of 50 mm GI/ PVCconduits at a depth of 300 mm including excavation, backfilling, making & repairing of walls in trenches, cutting, threading, fixing of sockets/bends where required etc to complete. Also between pull pit boxes to JB/LP (Free issue item by BHEL)		item82 OF ANNEXURE-BOQ - SERVICES ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
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159	Service Item- Laying of 100 mm GI/ PVC conduits at a depth of 300 mm including excavation, backfilling, making & repairing of walls in trenches, cutting, threading, fixing of sockets/bends where required etc to complete. Also between pull pit boxes to JB/LP (Free issue item by BHEL)		item83 OF ANNEXURE- BOQ - SERVICES ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
160	Service Item- Construction of Pull Pit Boxes of sizes 400 mmx400 m x400 mm at the free ends and turning of GI pipes if pipe length exceeds 4M including supply of GI cover and other accessories		item84 OF ANNEXURE- BOQ - SERVICES ERSAMA	100	No.s	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
161	Service Item- Earthing using 50x6 mm GI Flat (Free issue item by BHEL)		item85 OF ANNEXURE- BOQ - SERVICES ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
162	Service Item- Earthing using 75x10 mm GI Flat (Free issue item by BHEL)		item86 OF ANNEXURE- BOQ - SERVICES ERSAMA	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
163	Service Item- Earthing using 40mm Dia, 3m long MS Rod including CI cover and other accessories		item87 OF ANNEXURE- BOQ - SERVICES ERSAMA	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
164	Supply item- Outdoor Lighting Panel/ Switchyard AC Console (Normal & Emergency)- OLP type	GEM BOQ Item Number 5	item1 OF ANNEXURE- BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
SUBJECT **BID SPECIFIC ATC**

165	Supply item- Indoor Lighting Panel (Normal & Emergency)- ILP type	item2 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
166	Supply item- DC Emergency Lighting Panel/ Distribution Board- DCLP type	item3 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
167	Supply item- Indoor Receptacle Board/ Panel- IRP1 type	item4 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
168	Supply item- Indoor Receptacle Board/ Panel- IRP2 type	item5 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
169	Supply item- Outdoor Street Lighting Panel/ Outdoor Kiosk- SLP type	item6 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
170	Supply item- Switchyard Receptacle Board for Transformer Oil Filtration, RQ type	item7 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
171	Supply item- Outdoor Receptacle- RP 1 type	item8 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
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172	Supply item- Outdoor Receptacle- RP 2 type	item9 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
173	Supply item- Outdoor Receptacle- RO type	item10 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
174	Supply item- Receptacle 5/15A (Decorative)- RI type	item11 OF ANNEXURE-BOQ - SUPPLY DUBURI	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
175	Supply item- Receptacle 20A (Industrial)- RB type	item12 OF ANNEXURE-BOQ - SUPPLY DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
176	Supply item- Receptacle 20A (Industrial) (Flameproof)- RB type	item13 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
177	Supply item- Outdoor Junction Box	item14 OF ANNEXURE-BOQ - SUPPLY DUBURI	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
178	Supply item- 150 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories	item15 OF ANNEXURE-BOQ - SUPPLY DUBURI	50	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT OPTCL ERSAMA & DUBURI
ITEM SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
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179	Supply item- 250 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories	item16 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
180	Supply item- 100 W LED LIGHTING FIXTURES including LAMPS of reputed make (Philips/ CGL/ Bajaj) for Street Light.	item17 OF ANNEXURE-BOQ - SUPPLY DUBURI	10	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
181	Supply item- Street Lighting Pole including JB- A1 type	item18 OF ANNEXURE-BOQ - SUPPLY DUBURI	10	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
182	Supply item- 35-40 W Post top LED Lantern (decorative type lighting fixture including lamp of reputed make (Philips/ CGL/ Bajaj) for Street Light.	item19 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
183	Supply item- Post Top lantern Lighting Pole including JB- E1 type	item20 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
184	Supply item- Recess mounted 2X2 LED Luminaire, 36-40 W	item21 OF ANNEXURE-BOQ - SUPPLY DUBURI	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
185	Supply item- Recessed mounted circular LED downlight luminaire	item22 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
SUBJECT **BID SPECIFIC ATC**

186	Supply item- Surface mounted circular LED downlight luminaire	item23 OF ANNEXURE-BOQ - SUPPLY DUBURI	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
187	Supply item- Surface mounted 2X2 LED Luminaire, 36-40 W	item24 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
188	Supply item- Surface mounted Aluminium linear LED Batten, 36-40 W	item25 OF ANNEXURE-BOQ - SUPPLY DUBURI	8	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
189	Supply item- Recessed DC Downlighter for False Ceiling Areas	item26 OF ANNEXURE-BOQ - SUPPLY DUBURI	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
190	Supply item- Surface mounted DC Industrial bulkhead lighting fixture for Non-false Ceiling Areas	item27 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
191	Supply item- Portable emergency light	item28 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
192	Supply item- Exit Sign Board	item29 OF ANNEXURE-BOQ - SUPPLY DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT **OPTCL ERSAMA & DUBURI**
ITEM **SUPPLY AND SERVICES OF ILLUMINATION SYSTEM**
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193	Supply item- Occupancy based Infra Red Sensors	item30 OF ANNEXURE-BOQ - SUPPLY DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
194	Supply item- Switchboard- S-1 type	item31 OF ANNEXURE-BOQ - SUPPLY DUBURI	15	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
195	Supply item- Switchboard- S-2 type	item32 OF ANNEXURE-BOQ - SUPPLY DUBURI	5	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
196	Supply item- Switchboard- S-3 type	item33 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
197	Supply item- Switchboard- S-4 type	item34 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
198	Supply item- Switchboard- S-5 type	item35 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
199	Supply item- Exhaust fans- 600 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen for Toilets	item36 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

PROJECT OPTCL ERSAMA & DUBURI
ITEM SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
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200	Supply item- Exhaust fans- 1000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen	item37 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
201	Supply item- Exhaust fans- 1500 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen	item38 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
202	Supply item- Exhaust fans- 2000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen	item39 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
203	Supply item- Ceiling fans 1200mm sweep with electronic regulator, fan hook, suspension rod etc.	item40 OF ANNEXURE-BOQ - SUPPLY DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
204	Supply item- Wall mounted fans 400mm sweep with fixing arrangement	item41 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
205	Supply item- Galvanized rigid conduit of 20mm size with accessories	item42 OF ANNEXURE-BOQ - SUPPLY DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
206	Supply item- Galvanized rigid conduit of 25mm size with accessories	item43 OF ANNEXURE-BOQ - SUPPLY DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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207	Supply item- Galvanized heavy duty steel conduit of 25mm size with accessories with additional epoxy coating for corrosive areas	item44 OF ANNEXURE-BOQ - SUPPLY DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
208	Supply item- Galvanized rigid conduit of 40mm size with accessories	item45 OF ANNEXURE-BOQ - SUPPLY DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
209	Supply item- 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC	item46 OF ANNEXURE-BOQ - SUPPLY DUBURI	30	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
210	Supply item- PVC conduit of 20mm size with accessories	item47 OF ANNEXURE-BOQ - SUPPLY DUBURI	600	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
211	Supply item- PVC conduit of 25mm size with accessories	item48 OF ANNEXURE-BOQ - SUPPLY DUBURI	300	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
212	Supply item- PVC conduit of 40mm size with accessories	item49 OF ANNEXURE-BOQ - SUPPLY DUBURI	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
213	Supply item- 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item50 OF ANNEXURE-BOQ - SUPPLY DUBURI	3800	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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214	Supply item- 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item51 OF ANNEXURE-BOQ - SUPPLY DUBURI	1000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
215	Supply item- 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item52 OF ANNEXURE-BOQ - SUPPLY DUBURI	300	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
216	Supply item- 1C, 6 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item53 OF ANNEXURE-BOQ - SUPPLY DUBURI	200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
217	Supply item- 2C, 2.5 sqmm PVC insulated stranded Cu. Wire	item54 OF ANNEXURE-BOQ - SUPPLY DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
218	Supply item- 1C, 10 sqmm PVC insulated stranded Al. Wire	item55 OF ANNEXURE-BOQ - SUPPLY DUBURI	150	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
219	Supply item- Earthing Material- 25x6mm GI Flat	item56 OF ANNEXURE-BOQ - SUPPLY DUBURI	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
220	Supply item- Earthing Material- 3m , 20mm dia ms rod electrode	item57 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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221	Supply item- Earthing Material - GI wire for Earthing of size 8 SWG	item58 OF ANNEXURE-BOQ - SUPPLY DUBURI	500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
222	Supply item- Earthing Material - GI wire for Earthing of size 16 SWG	item59 OF ANNEXURE-BOQ - SUPPLY DUBURI	800	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
223	Supply item- Temperature Transducer	item60 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
224	Supply item- Telephone points, single outlet telephone socket and accessories	item61 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
225	Supply item- Telephone Junction Box suitable for 20 pair Indoor type	item62 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
226	Supply item- 2 wire telephone cable (ISI marked)	item63 OF ANNEXURE-BOQ - SUPPLY DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
227	Supply item- LAN points incudiung accessories	item64 OF ANNEXURE-BOQ - SUPPLY DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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228	Supply item- Supply of LAN Cable		item65 OF ANNEXURE-BOQ - SUPPLY DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
229	Supply item- PORTABLE ALUMINIUM LADDER EXTENDABLE TYPE OF ADEQUATE HEIGHT TO BE USED FOR MAINTENANCE OF EQUIPMENT INSIDE SWITCH YARD		item66 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
230	Supply item- Erection hardwares for indoor like 3 way circular J.B.(20mm and 25mm), 4 way circular J.B.(20mm and 25mm), 90deg Inspection Bend (20mm and 25mm), 90deg Normal Bend (20mm and 25mm), Heavy duty, Saddle with base (20mm and 25mm), Heavy duty, Saddle without base (20mm and 25mm), M4X25mm, steel screw with nut and washer, check nut/lock nut (20mm and 25mm), PVC Rawl plug, 6mm, Wooden screw, 35mm, Earth clip/clamp (20mm and 25mm), Cleat fabrication out of 25x6mm M.S. flat (for hanging conduit in false ceiling areas, Anchor fastner (M10x75mm for cleats, M12x75mm for lighting panels), Rubber bush (20mm and 25mm), 20mm PVC, flexible conduit, 25mm, PVC conduit, Coupling, Swing out braket, 20mm, Heavy duty, ball socket, Machine screw (for fixing surface mounting fixtures on circular J.B.), PVC closure (20mm and 25mm), Reducer (20mm and 25mm), GI wire/ FRLSH cu	GEM BOQ Item Number 6	item67 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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	wire for earthing, lugs & glands for wires/cables, indoor junction box etc, as required, for completion of supply for switch yard indoor illumination system									
231	Supply item- Erection hardwares for outdoor like 20x1.5mm Aluminium flat, M12x40mm, GI Bolt with nut and washer for fixing outdoor lighting panels, M6x30mm, GI Bolt with nut and washer for fixing control gear boxes, M8x30mm, GI Bolt with nut and washer for fixing outdoor JB's, SLP, M10x35mm, GI Bolt with nut and washer for fixing outdoor lighting fixtures, Earth wire from JB to lighting fixtures, Mounting brackets for outdoor lighting fixtures, GI wire for earthing, lugs & glands for wires/ cables etc, as required, for completion of supply for switch yard outdoor illumination system	GEM BOQ Item Number 7	item68 OF ANNEXURE-BOQ - SUPPLY DUBURI	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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232	Service Item- Outdoor Lighting Panel/ Switchyard AC Console (Normal & Emergency)- OLP type	GEM BOQ Item Number 8	item1 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
233	Service Item- Indoor Lighting Panel (Normal & Emergency)- ILP type		item2 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
234	Service Item- DC Emergency Lighting Panel/ Distribution Board- DCLP type		item3 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
235	Service Item- Indoor Receptacle Board/ Panel- IRP1 type		item4 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
236	Service Item- Indoor Receptacle Board/ Panel- IRP2 type		item5 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
237	Service Item- Outdoor Street Lighting Panel/ Outdoor Kiosk- SLP type		item6 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
238	Service item- Switchyard Receptacle Board for Transformer Oil Filtration, RQ type		item7 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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239	Service Item- Outdoor Receptacle- RP 1 type		item8 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
240	Service Item- Outdoor Receptacle- RP 2 type		item9 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
241	Service Item- Outdoor Receptacle- RO type		item10 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
242	Service Item- Receptacle 5/15A (Decorative)- RI type		item11 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
243	Service Item- Receptacle 20A (Industrial)- RB type		item12 OF ANNEXURE- BOQ - SERVICES DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
244	Service Item- Receptacle 20A (Industrial) (Flameproof)- RB type		item13 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
245	Service Item- Outdoor Junction Box		item14 OF ANNEXURE- BOQ - SERVICES DUBURI	6	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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246	Service Item- 150 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories	item15 OF ANNEXURE- BOQ - SERVICES DUBURI	50	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
247	Service Item- 250 W LED flood lights of reputed make (Philips/ CGL/ Bajaj or any approved vendor of OPTCL) with lamps, fixtures, control gear & other mounting accessories	item16 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
248	Service Item- 100 W LED LIGHTING FIXTURES including LAMPS of reputed make (Philips/ CGL/ Bajaj) for Street Light.	item17 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
249	Service Item- Street Lighting Pole including JB- A1 type	item18 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
250	Service Item- 35-40 W Post top LED Lantern (decorative type lighting fixture including lamp of reputed make (Philips/ CGL/ Bajaj) for Street Light.	item19 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Set	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
251	Service Item- Post Top lantern Lighting Pole including JB- E1 type	item20 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
252	Service Item- Recess mounted 2X2 LED Luminaire, 36-40 W	item21 OF ANNEXURE- BOQ - SERVICES DUBURI	20	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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253	Service Item- Recessed mounted circular LED downlight luminaire	item22 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
254	Service Item- Surface mounted circular LED downlight luminaire	item23 OF ANNEXURE- BOQ - SERVICES DUBURI	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
255	Service Item- Surface mounted 2X2 LED Luminaire, 36-40 W	item24 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
256	Service Item- Surface mounted Aluminium linear LED Batten, 36-40 W	item25 OF ANNEXURE- BOQ - SERVICES DUBURI	8	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
257	Service Item- Recessed DC Downlighter for False Ceiling Areas	item26 OF ANNEXURE- BOQ - SERVICES DUBURI	3	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
258	Service Item- Surface mounted DC Industrial bulkhead lighting fixture for Non-false Ceiling Areas	item27 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
259	Service Item- Exit Sign Board	item28 OF ANNEXURE- BOQ - SERVICES DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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260	Service Item- Occupancy based Infra Red Sensors		item29 OF ANNEXURE- BOQ - SERVICES DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
261	Service Item- Switchboard- S-1 type		item30 OF ANNEXURE- BOQ - SERVICES DUBURI	15	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
262	Service Item- Switchboard- S-2 type		item31 OF ANNEXURE- BOQ - SERVICES DUBURI	5	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
263	Service Item- Switchboard- S-3 type		item32 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
264	Service Item- Switchboard- S-4 type		item33 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
265	Service Item- Switchboard- S-5 type		item34 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
266	Service Item- Exhaust fans- 600 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen for Toilets		item35 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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267	Service Item- Exhaust fans- 1000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen		item36 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
268	Service Item- Exhaust fans- 1500 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen		item37 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
269	Service Item- Exhaust fans- 2000 CMH@ 7mm WC Exhaust fans with metal sheet crawl & bird screen		item38 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
270	Service Item- Ceiling fans 1200mm sweep with electronic regulator, fan hook, suspension rod etc.		item39 OF ANNEXURE- BOQ - SERVICES DUBURI	4	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
271	Service Item- Wall mounted fans 400mm sweep with fixing arrangement		item40 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
272	Service Item- Galvanized rigid conduit of 20mm size with accessories		item41 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
273	Service Item- Galvanized rigid conduit of 25mm size with accessories		item42 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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274	Service Item- Galvanized heavy duty steel conduit of 25mm size with accessories with additional epoxy coating for corrosive areas		item43 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
275	Service Item- Galvanized rigid conduit of 40mm size with accessories		item44 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
276	Service Item- 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC		item45 OF ANNEXURE- BOQ - SERVICES DUBURI	30	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
277	Service Item- PVC conduit of 20mm size with accessories		item46 OF ANNEXURE- BOQ - SERVICES DUBURI	600	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
278	Service Item- PVC conduit of 25mm size with accessories		item47 OF ANNEXURE- BOQ - SERVICES DUBURI	300	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
279	Service Item- PVC conduit of 40mm size with accessories		item48 OF ANNEXURE- BOQ - SERVICES DUBURI	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
280	Service Item- 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.		item49 OF ANNEXURE- BOQ - SERVICES DUBURI	3800	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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281	Service Item- 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item50 OF ANNEXURE- BOQ - SERVICES DUBURI	1000	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
282	Service Item- 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item51 OF ANNEXURE- BOQ - SERVICES DUBURI	300	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
283	Service Item- 1C, 6 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	item52 OF ANNEXURE- BOQ - SERVICES DUBURI	200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
284	Service Item- 2C, 2.5 sqmm PVC insulated stranded Cu. Wire	item53 OF ANNEXURE- BOQ - SERVICES DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
285	Service Item- 1C, 10 sqmm PVC insulated stranded Al. Wire	item54 OF ANNEXURE- BOQ - SERVICES DUBURI	150	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
286	Service Item- Earthing Material- 25x6mm GI Flat	item55 OF ANNEXURE- BOQ - SERVICES DUBURI	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
287	Service Item- Earthing Material- 3m , 20mm dia ms rod electrode	item56 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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288	Service Item- Earthing Material - GI wire for Earthing of size 8 SWG		item57 OF ANNEXURE- BOQ - SERVICES DUBURI	500	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
289	Service Item- Earthing Material - GI wire for Earthing of size 16 SWG		item58 OF ANNEXURE- BOQ - SERVICES DUBURI	800	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
290	Service Item- Temperature Transducer		item59 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
291	Service Item- Telephone points, single outlet telephone socket and accessories		item60 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
292	Service Item- Telephone Junction Box suitable for 20 pair Indoor type		item61 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
293	Service Item- 2 wire telephone cable (ISI marked)		item62 OF ANNEXURE- BOQ - SERVICES DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
294	Service Item- LAN points including accessories		item63 OF ANNEXURE- BOQ - SERVICES DUBURI	2	Nos.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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295	Service Item- Laying of LAN Cable		item64 OF ANNEXURE- BOQ - SERVICES DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
296	Service Item- Erection hardwares for indoor like 3 way circular J.B.(20mm and 25mm), 4 way circular J.B.(20mm and 25mm), 90deg Inspection Bend (20mm and 25mm), 90deg Normal Bend (20mm and 25mm), Heavy duty, Saddle with base (20mm and 25mm), Heavy duty, Saddle without base (20mm and 25mm), M4X25mm, steel screw with nut and washer, check nut/lock nut (20mm and 25mm), PVC Rawl plug, 6mm, Wooden screw, 35mm, Earth clip/clamp (20mm and 25mm), Cleat fabrication out of 25x6mm M.S. flat (for hanging conduit in false ceiling areas, Anchor fastner (M10x75mm for cleats, M12x75mm for lighting panels), Rubber bush (20mm and 25mm), 20mm PVC, flexible conduit, 25mm, PVC conduit, Coupling, Swing out braket, 20mm, Heavy duty, ball socket, Machine screw (for fixing surface mounting fixtures on circular J.B.), PVC closure (20mm and 25mm), Reducer (20mm and 25mm), GI wire/ FRLSH cu wire for earthing, lugs & glands for wires/cables, indoor junction box etc, as required, for completion of supply for switch yard indoor illumination system		item65 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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297	Service Item- Erection hardwares for outdoor like 20x1.5mm Aluminium flat, M12x40mm, GI Bolt with nut and washer for fixing outdoor lighting panels, M6x30mm, GI Bolt with nut and washer for fixing control gear boxes, M8x30mm, GI Bolt with nut and washer for fixing outdoor JB's, SLP, M10x35mm, GI Bolt with nut and washer for fixing outdoor lighting fixtures, Earth wire from JB to lighting fixtures, Mounting brackets for outdoor lighting fixtures, GI wire for earthing, lugs & glands for wires/ cables etc, as required, for completion of ETC works for switch yard outdoor illumination system	item66 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
298	Service Item- Lux Level Measurement and demonstration to BHEL/ customer at site including arrangement of necessary test equipment on returnable basis	item67 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Lot	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
299	Service Item- 2C, 2.5 sq mm PVC insulated, Armoured Cu. Cable (Free issue item by BHEL)	item68 OF ANNEXURE- BOQ - SERVICES DUBURI	1200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
300	Service Item- 2C, 6 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)	item69 OF ANNEXURE- BOQ - SERVICES DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
301	Service Item- 4C, 6 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)	item70 OF ANNEXURE- BOQ - SERVICES DUBURI	1200	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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302	Service Item- 4C, 16 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item71 OF ANNEXURE- BOQ - SERVICES DUBURI	300	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
303	Service Item- 3.5C, 35 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item72 OF ANNEXURE- BOQ - SERVICES DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
304	Service Item- 3.5C, 70 sq mm PVC insulated, Armoured Al. Cable (Free issue item by BHEL)		item73 OF ANNEXURE- BOQ - SERVICES DUBURI	50	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
305	Service Item- 3.5C, 120 sq mm XLPE insulated, Armoured Al. Cable (Free issue item by BHEL)		item74 OF ANNEXURE- BOQ - SERVICES DUBURI	20	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
306	Service Item- 3.5C, 185 sq mm XLPE insulated, Armoured Al. Cable (Free issue item by BHEL)		item75 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted
307	Service Item- Laying of 50 mm GI/ PVCconduits at a depth of 300 mm including excavation, backfilling, making & repairing of walls in trenches, cutting, threading, fixing of sockets/bends where required etc to complete. Also between pull pit boxes to JB/LP (Free issue item by BHEL)		item76 OF ANNEXURE- BOQ - SERVICES DUBURI	100	Mtr.	Quoted	Quoted	Quoted Mention GST % Quoted	Quoted	Quoted

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308	Service Item- Laying of 100 mm GI/ PVC conduits at a depth of 300 mm including excavation, backfilling, making & repairing of walls in trenches, cutting, threading, fixing of sockets/bends where required etc to complete. Also between pull pit boxes to JB/LP (Free issue item by BHEL)	item77 OF ANNEXURE- BOQ - SERVICES DUBURI	100	Mtr.	Quoted	Quoted	Quoted	Quoted	Quoted
309	Service Item- Construction of Pull Pit Boxes of sizes 400 mmx400 m x400 mm at the free ends and turning of GI pipes if pipe length exceeds 4M including supply of GI cover and other accessories	item78 OF ANNEXURE- BOQ - SERVICES DUBURI	10	Nos.	Quoted	Quoted	Quoted	Quoted	Quoted
310	Service Item- Earthing using 50x6 mm GI Flat (Free issue item by BHEL)	item79 OF ANNEXURE- BOQ - SERVICES DUBURI	50	Mtr.	Quoted	Quoted	Quoted	Quoted	Quoted
311	Service Item- Earthing using 75x10 mm GI Flat (Free issue item by BHEL)	item80 OF ANNEXURE- BOQ - SERVICES DUBURI	50	Mtr.	Quoted	Quoted	Quoted	Quoted	Quoted
312	Service Item- Earthing using 40mm Dia, 3m long MS Rod including CI cover and other accessories	item81 OF ANNEXURE- BOQ - SERVICES DUBURI	1	Nos.	Quoted	Quoted	Quoted	Quoted	Quoted

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :

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ANNEXURE-IV

CONTACT DETAILS OF BIDDER

Work Address	
Correspondence Address	
PAN NO.	
GST No.	
Details of contact person for clarification regarding bid:	
Contact Person Name	
Designation	
email ID	
Mobile No.	
Landline No.	

Signature of the authorized representative of

Place :

Date :

Bidder's Name :

Designation :

Company Seal :

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ANNEXURE-V

Item/ Package Name	
GeM Bid No.	OPTCL ERSAMA & DUBURI
Project	SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
Percentage of Local Content%

Format of Self-certification regarding Local Content in line with PPP-MII order, 2017 and its revision Dtd. 04.06.2020.

Date:

I S/o, D/o, W/o, Resident of hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Order, 2017 (*hereinafter PPP-MII order*) of Government of India issued vide Notification No. P-45021/2/2017-BE-II Dtd. 15.06.2017, its revision Dtd. 04.06.2020 and any subsequent modifications/ amendments, if any.

That the information furnished hereinafter is correct to the best of my knowledge and belief and I undertake to produce relevant records before the procuring entity/ BHEL or any other Government authority for the purpose of assessing the local content of goods/ services/ works supplied by me for
(Enter the name of the Equipment/ Item for Project).

That the local content for all inputs which constitute the said goods/ services/ works has been verified by me and I am responsible for the correctness of the claims made therein.

That the goods/ services/ works supplied by me for (*Enter the name of the Equipment/Item for Project*) contains% (*mention the Local content in %age*) Local Content.

That the value addition for the purpose of meeting the 'Minimum Local Content' has been made by me at (*Enter the details of the location(s) at which value addition is made*).

That in the event of the local content of the goods/ services/ works mentioned herein is found to be incorrect and not meeting the prescribed supplier class categorization criteria as per said order, based on the assessment of procuring agency(s)/ BHEL/ Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Integrity pact/ Bidding Documents.

I agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority:

- i. Name and details of the Local Supplier
(Registered Office, Manufacturing unit location, nature of legal entity)
- ii. Date on which this certificate is issued
- iii. Goods/ services/ works for which the certificate is produced
- iv. Procuring entity to whom the certificate is furnished
- v. Percentage of local content claimed and whether it meets the Minimum Local Content prescribed
- vi. Name and contact details of the unit of the Local Supplier(s)
- vii. Sale Price of the product
- viii. Ex-Factory Price of the product

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- ix. Freight, insurance and handling
- x. Total Bill of Material
- xi. List and total cost value of input used to manufacture the Goods/ to provide services/ in construction of works
- xii. List and total cost of input which are domestically sourced. Value addition certificates from suppliers, if the input is not in-house to be attached
- xiii. List and cost of inputs which are imported, directly or indirectly

For and on behalf of *(Name of firm/ entity)*

Authorized signatory (To be duly authorized by the Board of Directors)
(Insert Name, Designation and Contact No.)

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ANNEXURE-VI

SCHEDULE OF COMMERCIAL DEVIATION

The following are the deviations/ variations exception from the General Terms and Conditions:

Sl. No.	Clause No. of Terms and Conditions	Statement of Deviation
	Nil Deviation	Nil Deviation

In case, this schedule is not submitted, it will be presumed that the equipment/ material to be supplied under this contract is deemed to be in compliance with the General Terms and Conditions.

If there is **Nil Deviation**, even then the format to be filled as **Nil Deviation**.

Note:

1. Continuation sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.
2. Deviation mentioned in this schedule shall only be considered.

This Format is to be submitted in original duly signed by bidder. Reproduction of the same in any sort is not acceptable.

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :

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ANNEXURE-VII

SCHEDULE OF TECHNICAL DEVIATION

The following are the deviations/ variations exception from the Technical Specifications:

Sl. No.	Clause No. of Technical Specifications	Statement of Deviation
	Nil Deviation	Nil Deviation

In case, this schedule is not submitted, it will be presumed that the equipment/ material to be supplied under this contract is deemed to be in compliance with the Technical Specifications.

If there is **Nil Deviation**, even then the format to be filled as **Nil Deviation**.

Note:

- Continuation sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.
- Deviation mentioned in this schedule shall only be considered.

This Format is to be submitted in original duly signed by bidder. Reproduction of the same in any sort is not acceptable.

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :

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ANNEXURE-VIII

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME & ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House Siri Fort New Delhi-110049 through its Unit at BHEL, TBG, Noida having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____² hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No PO No.....dated³ valued at Rs.....⁴ (Rupees -----/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----) without any demur, immediately on a demand from the Employer, .

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and

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we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷we shall be discharged from all liabilities under this guarantee thereafter.

We BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹
- c) Unless the Bank is served a written claim or demand on or before¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

Instruction for BG

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

⁸ BG AMOUNT IN FIGURES AND WORDS.

⁹ VALIDITY DATE

¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

CHECKLIST FOR SUPPLY BILLS

Name of Project							
Package Description							
Invoice No. & Date							
PO No. & Date							
Sl. No.	Documents Required	Copies	Check Points	Page No.	Vendor Remarks	Verification by MM	Verification by Finance
					(Y/ N/ NA)	(Y/ N/ NA)	(Y/ N/ NA)
1	Original for Buyer Invoice - GST compliant invoice	1 Original + 2 Copy	1. Please ensure GST complaint invoice in original				
			2. Consignee address: BHEL C/o followed by site address				
			3. Item description and unit of quantity are matched with PO				
			4. Buyer address and GSTN No. as required (TBG Noida or Nodal agency)				
			5. PO No. and Date, LR No. and Date, Vehicle No. and Project Name are mentioned				
			6. Invoiced quantity are not more than the PO quantity and MICC quantity				
			7. Ex-works unit rate, Taxes and F&I rates are same as per PO				
			8. Signed and stamped by vendor				
2	Received LR (signed & stamped)/ confirmation from site regarding receipt of packages/ boxes	1 Original + 2 Copy	2. Consignee address: BHEL C/o followed by site address				
			2. In case of material purchased from sub vendor, Consignee address Vendor's name C/o BHEL C/o site address				
			3. Vendor's Invoice No. and Vehicle No. are mentioned				
			4. No. of boxes/ No. of packages are same as per Packing List				
			5. In case of and adverse remark on LR (Like shortages/ damages/ broken, etc.), clarification from site/ MM/ Commercial is needed				
			6. LR is readable				
			7. In case of photocopy, LR is verified by MM				
			8. LR Date is after the Date of MICC/ (MDCC if issued) or same Date				
3	Packing list - showing number of packages, and gross	1 Original + 2 Copy	1. PO No. and Date, LR No. and Date, Invoice No. and Date, Site Name and Address,				

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	weight/ net weight (if applicable)		Consignor and Consignee Address are mentioned				
			2. Item description and quantity are matched with Invoice and PO				
			3. Signed and stamped by vendor				
			4. No. of packages/ Item descriptions are matched with MRC and LR				
4	MICC from BHEL	1 Original + 2 Copy	1. BHEL MICC has been issued prior to the Date of dispatch or on same Date				
			2. In case where MICC Date is after the Date of dispatch then MDCC Date is same or prior to the Date of dispatch				
			3. Project Name, PO, PO Date, Vendor's Name and Address is correct				
			4. Item description, Quantity and unit of quantity are same as per PO and Invoice				
			5. All hold point in MICC, if any, have been resolved before submission of bill				
			6. Signed and stamped by BHEL Executive				
			7. MICC and MDCC quantity are not less than Invoice quantity and cover all invoiced items				
5	Guarantee Certificate	1 Original + 2 Copy	1. Project Name, PO No., Invoice No., LR No. and Date are mentioned				
			2. Guarantee Certificate is strictly matched with PO T&C				
			3. Signed and stamped by vendor				
6	Bank Guarantee	1 Copy	1. Ensure submission of BG directly from Bank before supply of material so that BG confirmation may be arranged before processing the bill				
			2. Bill can be processed only after receipt of BG confirmation directly from bank				
			3. It should be in the name of BHEL, TBG Noida with registered office address Siri Fort, New Delhi				
			4. It should be in prescribed format				
			5. BG value and validity plus claim period should be minimum as specified in PO/ RC. Please check before supply. If BG extension is required please arrange the same				
			6. Vendor's name address should be same as per PO				

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			7. PO No./ RC No. and Date should be correct				
7	Insurance Certificate	1 Original + 2 Copy	1. Invoice No. and Date, Vendor's Name, Place from Consignor to Consignee are mentioned				
			2. It has not been issued later than the LR Date				
			3. Insured value is not less than the Invoice value				
			4. Signed and stamped by Insurance Company				
			5. In case of Open Insurance Policy, declaration has been submitted to Insurance Company as per declaration clause of Open policy and copy of open policy is also enclosed				
			6. In case of any discrepancy, consent of Commercial is required for processing the bill and amount will be deducted for invalid Insurance certificate				
8	PVC (if applicable) Invoice is submitted along with the Dispatch Invoice	1 Original + 2 Copy	PVC (if applicable) Invoice is submitted along with the Dispatch Invoice				
			1. PVC Invoice is attached along with Supply Invoice				
			2. Calculation sheet and applicable PVC indices are also enclosed				
			3. If delay in delivery, then PVC indices are as per PO conditions				
9	Material Receipt Certificate		1. LR No. and Date, Invoice No. and Date, Vehicle No. and Date, Site Name an address are mentioned				
			2. Date of receipt of material				
			3. Item description and quantity are same as per Invoice/ Packing List				
			4. It is signed and stamped by Site Executive				
			5. In case of any shortages/ damages/ adverse remark, clarification is needed				
10	Other Documents		To be seen as per specific requirement of PO				
To be filled by BHEL-MM only							
11	Date of Submission of Last Billing Document		Date to be mentioned		Not to be filled by Vendor		
12	LD Calculation, if applicable, as per PO		Calculation Sheet of LD due to delay in delivery is attached				
13	Received LR (signed & stamped)/ confirmation from site regarding	1 Copy	Damages, if any mentioned in the Received LR have been accounted for. Withheld amount, if any_____				

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	receipt of packages/ Boxes						
14	Packing List - showing number of packages and gross weight & net weight (if applicable)	1 Original	If Packing List does not match with Purchase order (with reference to Sl. No. 4 above), Engineering/ MM acceptance as to the completeness is enclosed				
15	PO copy	1 Copy	PO copy with original seal and signature is attached along with amendment, if any				
16	DAN	1 Copy	Relevant DANs are attached duly signed by MM representative				
*Note:	Every field to be ticked. If some document is not applicable, same should be mentioned. All Pages to be numbered upward from the bottom page						
	Invoice Control No.				Vendor Signature	MM Signature	Finance Signature
					Date:	Date:	Date:

38.0 INSPECTION COST: (REF CL NO. 18 OF ITB--Section-II of Vol-I):

38.1 Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site.

- The testing and inspection of the equipment/ materials at manufacturer works are in the scope of work of the Contractor/Supplier. Travel Expenses of OPTCL Representative & Third Party Inspecting Agency (TPIA) shall be borne by the Contractor. However the Inspection Fees payable to TPIA will be borne by OPTCL.
- OPTCL inspecting officer and Third Party Inspecting Agency (TPIA), on receipt of offer for inspection from the contractor/supplier, shall proceed to the manufacturer works to witness the Type/Acceptance/Routine test.

38.2 The travel expenses under the following heads, in respect of OPTCL's representative and TPIA for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site, shall be borne by the contractor.

a) Hotel Accommodation:

- I. Single room accommodation in 4 star hotel for OPTCL/TPIA inspecting officer, not below the rank of Assistant General Manager (Grade E-6),
- II. Single room accommodation in 3 star hotel for OPTCL/TPIA inspecting officer of the rank below Assistant General Manager (Grade E-6).

N.B.: It is the responsibility of the contractor to arrange the hotel accommodation matching with their inspection and testing schedule. In case of extended duration of inspection or non-availability of the return ticket, Contractor shall arrange for the extended stay of the inspecting officer in the Hotel accordingly. In case, there is no hotel with prescribed standard in and around the place of inspection, the contractor shall suggest alternative

suitable arrangement at the time of offer for inspection, which is subjected to acceptability of OPTCL inspecting officer.

b) Journey of the Inspecting Officer:

- (i) To and fro travel expenditure from the Head Quarters of the inspecting officer to the place of inspection/testing shall be borne by the contractor as per the following.
 - Journey from the Head Quarters to the nearest Airport by train (1st/Ind A/C) or Taxi (A/C).
 - Journey from destination Airport to the place of inspection/testing by train (1st/Ind A/C) or Taxi (A/C).
 - For train journey, inspecting officer, not below the rank of Assistant General Manager shall be provided with 1st class AC ticket and inspecting officer below the rank of Assistant General Manager shall be provided with 2nd class AC ticket.
- (ii) Booking/cancellation of Air-ticket / Train-ticket is the responsibility of the contractor.
- (iii) Moreover, if during the journey there is an unavoidable necessity for intermediate travel by road/ waterway/sea-route, the contractor/supplier shall provide suitable conveyance to the inspecting officer for travel this stretch of journey or bear the cost towards this. Any such possibilities shall be duly *intimated to OPTCL at the time of their offer for inspection.*

c) Local Conveyance:

Local journey for the inspecting officer between Hotel and the place of the inspection/testing site, Air-conditioned four wheeler vehicles in good condition shall be provided by the contractor.

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ANNEXURE-XI

CLAUSE REGARDING RESTRICTIONS UNDER RULE 144 (XI) OF THE GENERAL FINANCIAL RULES (GFRS), 2017 AS PER GOVERNMENT OF INDIA ORDER OM NO.6/18/2019-PPD DTD. 23.07.2020

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not failing in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means:
 - a) An entity Incorporated, established or registered in such a country; or
 - b) A subsidiary of an entity Incorporated, established or registered in such a country; or
 - c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d) An entity whose beneficial owner is situated in such a country, or
 - e) An Indian (or other) agent of such an entity; or
 - f) A natural person who is a citizen of such a country; or
 - g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- IV. The beneficial owner for the purpose of (iii) above will be as under:
 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation:

 - a) "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
 - b) "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements;
 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of Individuals;
 4. Where no natural person is Identified under (1) or (2) or (3) above the beneficial owner is the relevant natural person who holds the position of senior managing official;

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5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- V. An Agent is a person employed to do any act for another or to represent another in dealings with third person.
- VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.
- The above clause is not applicable to the bidders from those countries (even if sharing a land border with India) to which the GoI has extended lines of credit or in which the GoI is engaged in development projects.
 - List of countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (<https://www.mea.gov.in/>).

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ANNEXURE-XII

VENDOR COMPLIANCE FORMAT IN BIDDER LETTER HEAD

**COMPLIANCE TO GOVERNMENT OF INDIA ORDER OM NO.6/18/2019-PPD DATED 23.07.2020
REGARDING RESTRICTIONS UNDER RULE 144 (XI) OF THE GENERAL FINANCIAL RULES (GFRS), 2017**

Sl. No.	Description	Bidder's confirmation
1.	<i>We, M/s have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; We hereby certify that we are not from such a country.</i>	Agreed

Note: Non-compliance of above said Gol Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by BHEL.

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :

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ANNEXURE-XIII

VENDOR COMPLIANCE FORMAT IN BIDDER LETTER HEAD

**COMPLIANCE TO GOVERNMENT OF INDIA ORDER OM NO.6/18/2019-PPD DATED 23.07.2020
REGARDING RESTRICTIONS UNDER RULE 144 (XI) OF THE GENERAL FINANCIAL RULES (GFRS), 2017**

Sl. No.	Description	Bidder's confirmation
1.	<i>We, M/s have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. We are from such a country which shares a land border with India & have been registered with the Competent Authority as specified in above said order. We hereby certify that we fulfil all requirements in this regard and are eligible to be considered. Evidence of valid registration by the Competent Authority is attached.</i>	Agreed

Note: Non-compliance of above said Gol Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by BHEL.

Signature of the authorized representative of

Place :

Date :

Bidder's Name :

Designation :

Company Seal :

PROJECT OPTCL ERSAMA & DUBURI
ITEM SUPPLY AND SERVICES OF ILLUMINATION SYSTEM
SUBJECT BID SPECIFIC ATC

ANNEXURE-XIV

No.25-111612018-PG
Government of India
Ministry of Power
Shram Shakti Bhawan, Rafi Marg, New Delhi • — 110001
Tele Fax: 011-23730264

Dated 02/07/2020

ORDER

Power Supply System is a sensitive and critical infrastructure that supports not only our national defence, vital emergency services including health, disaster response, critical national infrastructure including classified data & communication services, defence installations and manufacturing establishments, logistics services but also the entire economy and the day-today life of the citizens of the country. Any danger or threat to Power Supply System can have catastrophic effects and has the potential to cripple the entire country. Therefore, the Power Sector is a strategic and critical sector.

The vulnerabilities in the Power Supply System & Network mainly arise out of the possibilities of cyber attacks through malware / Trojans etc. embedded in imported equipment. Hence, to protect the security, integrity and reliability of the strategically important and critical Power Supply System & Network in the country, the following directions are hereby issued:-

1. All equipment, components, and parts imported for use in the Power Supply System and Network shall be tested in the country to check for any kind of embedded malware/trojans/cyber threat and for adherence to Indian Standards.
2. All such testings shall be done in certified laboratories that will be designated by the Ministry of Power (MOP).
3. Any import of equipment/components/parts from "prior reference" countries as specified or by persons owned by, controlled by, or subject to the jurisdiction or the directions of these "prior reference" countries will require prior permission of the Government of India
4. Where the equipment/components/parts are imported from "prior reference" countries, with special permission, the protocol for testing in certified and designated laboratories shall be approved by the Ministry of Power (MOP).

This order shall apply to any item imported for end use or to be used as a component, or as a part in manufacturing, assembling of any equipment or to be used in power supply system or any activity directly or indirectly related to power supply system.

This issues with the approval of Hon'ble Minister of State for Power and New & Renewable Energy (Independent Charge).



(Goutam Ghosh)

Director Tel: 011-23716674 To:

1. All Ministries/Departments of Government of India (As per list)
2. Secretary (Coordination), Cabinet Secretariat
3. Vice Chairman, NITI Aayog

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ANNEXURE-XV

VENDOR COMPLIANCE FORMAT IN BIDDER LETTER HEAD

In view of order No. 25-111612018-PG, Dated 02.07.2020 of Ministry of Power, GOI

GEM BID NO.	
PROJECT	OPTCL ERSAMA & DUBURI
ITEM	SUPPLY AND SERVICES OF ILLUMINATION SYSTEM

This is to certify that all equipment, components, and parts imported for use in the Power Supply System and Network are in strict compliance to directions issued by Ministry of Power, Govt. of India vide order No. 25-111612018-PG Dtd. 02.07.2020. The imported component(s), part or assembly item(s) does not carry any malware/ Trojan, etc.

Note: Non-compliance of MoP Order and its subsequent amendment(s), (if any), by vendor shall lead to rejection of their offer or cancellation of contract, which is awarded by BHEL.

Signature of the authorized representative of

Place :
Date :

Bidder's Name :
Designation :
Company Seal :