



## INSTITUTE OF PHYSICS

*(AN AUTONOMOUS RESEARCH INSTITUTION OF DEPARTMENT OF ATOMIC ENERGY  
GOVERNMENT OF INDIA)*

P.O. SAINIK SCHOOL, BHUBANESWAR-751005

### **Notice Inviting Tender (N.I.T)**

**In a e-Tender mode only on the Central Public Procurement  
Portal of Govt. of India under two cover system**

### **FOR**

**“INSTALLATION OF LED LIGHT & MOTION SENSOR IN IBL”**



## **NOTICE INVITING TENDER**

**TenderNo. NIT/IOP/73/2023-24**

1.0 E-tenders are invited by the “Director”, Institute of Physics, Bhubaneswar-751005, Orissa, comprising of technical and financial bid separately, from registered and reputed contractors, with valid Electrical License issued by Electrical Inspector of Government of Orissa for the work ”Installation of LED light & Motion sensor in IBL”

<b>Name of the work</b>	:	<b>Installation of LED Light &amp; Motion sensor in IBL at IOP</b>
<b>Estimated cost</b>	:	<b>Rs.10,99,453/- (Rupees Ten Lakh ninety nine thousand four hundred fifty three only) excluding taxes</b>
<b>Earnest Money Deposit (EMD) (Refundable)</b>	:	<b>Rs.38,920/-</b>
<b>Period of Completion of the work</b>	:	<b>60 days</b>
<b>Cost of Tender Paper</b>	:	<b>Nil</b>
<b>Type of Tender</b>	:	<b>Two bid</b>
<b>Mode of publishing of tender</b>	:	<b><a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> <a href="https://www.iopb.res.in/tenders">https://www.iopb.res.in/tenders</a></b>
<b>Mode of submission of tender</b>	:	<b>Online through Central Public Procurement Portal of Government of India (<a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>)</b>

### **2.0 Important dates:**

<b>Last Date of receiving of tender Document</b>	:	<b>03.01.2024 up to 18.00 Hours</b>
<b>Opening of tender.</b>	:	<b>04.01.2024 at 18.00 hours</b>
<b>Contact Person</b>	:	<b>Shri Arun Kanta Dash Email- <a href="mailto:arundash@iopb.res.in">arundash@iopb.res.in</a> SO/D, IOP, Bhubaneswar</b>

**Note:** In case the last date of sale and/or the date of receipt and opening of tender is declared as a holiday, the respective date shall be treated as postponed to the next working day.

The details of general tender terms & conditions can be downloaded from <https://eprocure.gov.in/eprocure/app> or Tender Free View Link from IOP, Bhubaneswar Website- [www.iopb.res.in/tenders/](http://www.iopb.res.in/tenders/)

**रेजिस्ट्रार/REGISTRAR**  
**भौतिकी संस्थान/INSTITUTE OF PHYSICS**  
**भुवनेश्वर/BHUBANESWAR**

## **INSTITUTE OF PHYSICS, BHUBANESWAR**

### **Instruction for Online Bid Submission**

The details of tender notification can be downloaded from <https://eprocure.gov.in/eprocure/app> or Tender Free View Link from [www.iopb.res.in/](http://www.iopb.res.in/)

1. Vendors should obtain the USER ID and PASSWORD from **CPP Portal** by clicking on “<https://eprocure.gov.in/eprocure/app>” link in the homepage.
2. For further details on e-Tender participation, please contact Help desk as mentioned below:-

*Telephone: 0120-4200 462/ 0120-4001 002/ 0120-4001 005/ 0120-6277 787*

*Email: **support-eproc(at)nic(dot)in.***

3. Tenders should be submitted only through **CPP portal** and obtain the Tender Acknowledgement copy as a proof of successful submission.
4. Tender documents for viewing only are also available in Institute of Physics web-site address: [HYPERLINK-  
http://www.iopb.res.in/tenders/](http://www.iopb.res.in/tenders/)
5. All corrigendum and addendum will be published on IOP,BBSR website and CPP Portal.
6. IOP, BBSR is publishing all its public and limited tender on IOP, BBSR website.
7. *For any query regarding tender terms & conditions please send email to [dnsahoo@iopb.res.in](mailto:dnsahoo@iopb.res.in)*

**Sd/-**

**REGISTRAR**

## **INSTRUCTIONS FOR ONLINE BID SUBMISSION**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

<https://eprocure.gov.in/eprocure/app>.

### **REGISTRATION**

Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead for misuse. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

### **SEARCHING FOR TENDER DOCUMENTS**

There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

### **PREPARATION OF BIDS**

Bidder should take into account any corrigendum published on the tender document before submitting their bids. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid: Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

## **TECHNICAL BID**

## **TENDER CALL NOTICE**

e-Tenders are invited by the “Director”, Institute of Physics, Bhubaneswar-751005, Orissa, comprising of technical and financial bid separately, from registered and reputed contractors, with valid Electrical License issued by Electrical Inspector of Government of Orissa for the “Installation of LED Light and motion sensor in IBL”

Name of the work	Estimated Cost	Cost of the tender paper	EMD required for the work	Time for completion
“Installation of LED Light and motion sensor in IBL”	Rs.10,99,453/- (Rupees Ten Lakh ninety nine thousand four hundred fifty three only) excluding taxes	Nil	Rs.38920/- (Rupees Thirty eight thousand nine hundred twenty ) only	60 days from the date of issue of work order

Bidders may down load the Tender Documents and submit their bids as per the procedure mentioned in the tender document .

**The tender papers will be received on 03.01.2024 at 18.00 hrs and Technical Bid will be opened on 04.01.2024 at 18.00 hrs.** (In case that day becomes a non-working day tenders (Technical Bid) shall be opened on next working day at the same time). The bidders or their authorized representative may remain present at the time of opening the tender (technical bid).

**Date and time for opening of tender (Price bid): After evaluation of technical bid it will be intimated to the technically successful bidders.**

The tender paper should accompany with the following documents at the time of submission:

1. Proof of registration with Govt. /Semi Govt. organizations like CPWD, State Electricity boards, Railways, Public sectors, DCSEM of DAE or worked for IOP etc.
2. Copy of PAN card, GST certificate
3. Copy of the Valid Electrical Contractor License.
4. Experience having successful completion of similar type of work during last three years. Copies of work order with detail work schedule & completion certificate for the same job is to be submitted for consideration as experience.
5. List of similar type of works in hand/ continuing.
6. List of equipments, accessories and infrastructure facilities possessed by the bidder.
7. EMD amounting to Rs.38920/- (Rupees Thirty eight thousand nine hundred twenty ) only in shape of demand draft or bankers cheque drawn in favor of the Institute of Physics, Bhubaneswar.
8. Any other document as mentioned in the section of special instructions to the tenderer of the tender document.
9. If worked for Institute of Physics copies of the work orders is to be attached.

10. Technical Bid, annexure of this tender document duly signed with seal in all pages along with other requirements as mentioned above from 1 to 9 to be uploaded in technical bid of e-tender process.

11. Price Bid duly filled in and uploaded in the CPP Portal.

In the absence of any of the documents listed above the tender papers will not be considered.

***E-Tenders should be submitted in e-tendering process with two Cover bid system, i.e. “Technical bid” and “Price bid”. The tender duly filled in & signed on each page, accepting the terms and conditions, may be uploaded in CPP portal***

Note: 1) The tenderer is requested to go through the tender documents in detail and visit the work site to make himself conversant regarding the work before filling up the tender paper.

2) Authority, Institute of Physics reserves the right to reject any or all tenders without assigning any reason thereof.

  
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**PART - II**  
**SPECIAL INSTRUCTIONS TO TENDERERS**



## **PART-II: SPECIAL INSTRUCTIONS TO TENDERERS:**

1. **Introduction:** e-Tenders are invited on two part basis (i.e. 1.Technical Bid & 2. Price Bid), by the “Director, Institute of Physics, Bhubaneswar, Orissa for the work of “Installation of LED Light and motion sensor in IBL”. The tender paper consists of the following:

### **TECHNICAL BID**

Part-I	-	Tender Notice
Part-II	-	Special Instructions to tenderers
ANNEXURE	-	I (Form for the credential of the bidder)
Draft for EMD		

PRICE BID - Schedule of quantities and rates

### **2. Acceptance of Tenders:**

The Authority of Institute of Physics, Bhubaneswar reserves the right to reject any or all tenders without assigning any reasons therefore. The lowest or any tender will not necessarily be accepted. Any tender not supported by the information requested in tender documents or not complying the provisions in the tender is liable to be rejected.

### **3. Compliance with specification and tender clarifications:**

Each bid shall deemed to be in full compliance with every clause of the specifications asked, unless exceptions are clearly defined and set forth in a separate sheet.

The tenderer shall note that if any clarifications regarding specifications, conditions of contract, schedule of quantities and scope of work required, he should contact Institute of Physics, Engineer-in-Charge. No claim on account of any ambiguity in any respect will be entertained after issue of work order.

### **4. Sub Contractors:**

The contractor shall not sublet any/ whole part of the work without written consent of the competent authority of Institute of Physics.

### **5. PRICES:**

The tenderers shall bid for the works in Indian Rupees for the Items listed in PRICE BID – Schedule of quantities and Rates.

Each tenderer shall submit unit prices and total price (as per schedule of quantities and rates). The quantities mentioned in this schedule (Price Bid – Schedule of quantities and Rates) shall be considered approximate only and the unit price entered in the schedule shall apply to the actual quantities measured in the completed work in accordance with the specifications. The prices quoted by the tenderer shall include the full cost of material, labour, equipment, transportation,

overheads, insurance, profit and other costs associated with the completion of the work involved under the items and shall account for the full scope of the work.

Income Tax and GST at the prescribed rate shall be deducted at source from your bill and will be deposited with the concerned authority. Necessary TDS certificate will be issued in your favor.

The tenderer's prices shall include all insurance, taxes and duties, all traveling, transportation and accommodation costs of all his staff including supervisory personnel.

6. **Miscellaneous Works:**

In addition to the items of work specifically set out in the form of tender schedule to be performed by the contractor as per the agreement, the contractor shall at the request of Engineer, whose decision in this regard shall be final, perform such works and supply such materials, facilities and services which are contingent to the work covered by the contract or are required for the completion of the works.

7. **Co-ordination of Works:**

The contractor shall plan his works suitably so as to avoid interference with the operations of the existing systems and the work will be carried out with minimum shut down of PDBs to be connected.

8 **Information to be included with the tender:** The tender shall be submitted as mentioned below:

8.1 **PRICE-BID:** Price bid in excel format requires to duly fill in and upload in the CPP Portal. In this bid the bidder is required to quote his rates/ prices for the works mentioned in the scope of work & technical specifications. The rates/ price should be inclusive of all material cost, labor, services, charges for the plant/ machinery/ tools & tackles required for work excluding Govt. duties, taxes, and levies up to IOP site basis. No charges towards quantity variation, escalation, site difficulties, other hidden cost even though they may not have been explicitly mentioned in the scope and schedule of works shall be payable extra or separately. It is mandatory on bidder to quote all items rate as asked for in the BOQ/ Price schedule. Failure to adhere to this condition will lead to rejection of tender. The bidders should quote unconditional rates, neatly written without any overwriting/ white fluid/ erasing and duly signed & stamped at all pages.

8.2 **TECHNICAL-BID:** In this bid, the bidder should submit his company profile, organizational setup, credentials, list of plant, machinery & tools in his possession, copies of work orders successfully executed during last three years and earnest money draft. No deviations in respect of tender conditions are acceptable. **The bidder is required to attach entire tender conditions including the annexure (excluding Price Bid) duly signed & stamped on each page as a token of acceptance to the tender conditions with this bid.** This envelope is to be super scribed as *“Technical Bid for the “Installation of LED Light and motion sensor in IBL”*.

The following specific conditions/ documents are essential for pre-qualification:

8.2.1 Proof of registration with Govt. /Semi Govt. organizations like CPWD, State Electricity boards, Railways, Public sectors, DCSEM of DAE or worked for IOP etc.

8.2.2 The full tender document (including all annexure & drawings) duly signed by the bidder on each page with seal has to be submitted as a token of acceptance of the terms and conditions mentioned therein.

8.2.3 Copies of work orders with detailed work schedule & completion certificate of the similar works executed during last three years are to be enclosed.

8.2.4 List of similar type of works in hand/ continuing.

8.2.5 List of similar works executed earlier shall be submitted in Annexure-II.

- 8.2.6 Details of any deviations from the specifications.
- 8.2.7 Copy of GST & PAN under IT act.
- 8.2.8 Copy of the Valid Electrical Contractor License.
- 8.2.9 Draft for EMD
- 8.2.10 List of equipment's, accessories & infrastructure facilities possessed
- 8.2.11 Company Profile

09 **Terms of Payment:** 90% of the total work order value will be paid after supply, installation, testing and successful commissioning of all equipments. Balance 10% will be retained as security deposit (defect liability period), which will be refunded after successful completion of one year from the date of work (defect liability period). No interest shall be paid on EMD/Security deposit. However the amount towards security deposit can be released against submission of Bank guarantee for the equivalent amount valid for the defect liability period (with one month more) by the contractor issued by a Nationalized/Schedule Bank.

10 **Penalty for the delay in completion:** If the contractor fails to execute and complete the work within the time specified i.e. 60days from the date of work order or within the period of extension granted, except is so far as the delay is on the IOP account, the contractor shall accept reduction in the total amount payable to him by the IOP at the rate of **0.5% (Half percent) per week** of the contract value for the actual pay occasioned and until the work shall have been completed under the contract. Subject to maximum deduction of 5% of the total value of the work.

11 **Proof of Ability:** The contractor shall submit the details of similar works executed by him in the form given in the Annexure-II as a proof of his ability to carry put the specified work. *At least three numbers of similar works should have been executed by the contractor during last three years.* The copy of the work order with detailed work schedule and completion certificate is to be submitted for consideration of the same work as experience.

12 **Increase or Decrease in Scope of Work:** The contractor shall carry out extra work at their quoted prices in their tender document for respective items of work so long as the entire total cost of the work executed is within the limits of  $\pm 10\%$  of the contract value. **The quantities mentioned in schedule of quantities are indicative only and actual requirement may vary in field.**

13 **Guarantee:** All supplied materials including hardware's and work executed by the contractor shall be guaranteed for one year from the date of commissioning.

14. **VALIDITY:** The tenders submitted should remain valid for acceptance for a period of 180 days from the date set for opening of the tender. The tenderer shall not be entitled during the said period of validity to revoke or cancel his tender or vary the tender given or any item thereof. In case of tenderer revoking or canceling his tender, varying any terms in regard thereof, the earnest money paid by the tenderer along with the tender shall be forfeited by the Institute of Physics.

15 **EMD:** An earnest money of Rs.38920/- has to be deposited along with the technical bid. The EMD shall be only in the form of Bank Draft in favor of Institute of Physics, payable at Bhubaneswar. No Cheque/ cash shall be accepted. EMD of technically disqualified bidders will be returned within 30 days from the date of evaluation of the technical bids. EMD of successful bidder will be retained by IOP during pendency of the contract. No interest shall be paid on such EMD.

16. **Escalation:** No escalation over and above items' rates quoted by the bidder shall be paid during the execution of contract.
17. **Rights reserved by IOP:** Institute of Physics reserves the right to reject any or all the tenders in full or in part without assigning any reasons whatsoever, and the decision of the Institute in this regard will be binding on all the bidders. Tenders not complying any of the provisions stated in this tender document are liable to be rejected. **Director, IOP reserves the right to accept or reject any tender, either in full or part, without assigning any reasons thereof and does not bind himself to accept the lowest tender.**
18. **Entry and exit of materials from IOP campus:** Materials belonging to the contractor whether consumable or non consumable should be brought inside the IOP campus with proper entry at the main gate and any material to be taken out with proper gate pass issued by the Institute.
19. **Termination of the contract:** The Director, IOP reserves the right to terminate the contract on account of poor workmanship, failure to mobilize site, non-compliance of set norms/ specifications for the works, delay in progress of work, violation of any contract provisions by the contractor. In such cases the contractor is liable to pay liquidated damages amounting to 10% of the total work value.
20. **Fabrication work:** The sample of the items like JB, switch box, DBs etc, to be used are to be got approved by EIC before execution at site. **The distribution boards mentioned in work schedule/ price bid has to be fabricated in electrical panel fabrication shop approved by Institute of Physics.** The DBs will be inspected by our Engineer In-charge in 3 stages and for which it has to be informed accordingly.
21. **Communication Address of Bidder:** Bidder should mention their detailed contact address, telephone & Fax number, E-mail address, name of authorized contact person for this tender, mobile phone number etc. in their letter head pad and same is to be attached along with the technical bid.
22. **Dispute:** Any dispute arising out of this contract will be subjected to jurisdiction of Bhubaneswar.
23. **Statutory condition:** Tender once submitted will remain with the Institute and will never be returned to the bidders. The bids will be IOP property.

**ANNEXURE-II**

**WORKS COMPLETED AND IN PROGRESS DURING THE LAST 3 YEARS (INCLUDING ALL WORKS AWARDED)**

{ADD ADDITIONAL SHEETS, IF NECESSARY}

Sl. No.	Name of Work	Date of start	<u>Date of Completion</u>		Reason for delay & compensa tion levied if any	Tender ed Cost	Net Amount received	Name  Designation &  Complete address of the Authority for whom the Work was done
			<u>Stipulated</u>	<u>Actual</u>				

**Signature of the tenderer with seal**

**SCHEDULE OF QUANTITIES**  
**FOR**  
**FOR INSTALLATION OF LED LIGHT & MOTION SENSOR IN IBL**

Sl. no	Description	Qty.	Unit	Supply	Installation	Total unit price	Amount (in Rupees)
01	<p><b><u>Wiring in PVC Casing &amp; Capping:</u></b>  Supply Installation, testing &amp; commissioning of 1100V FRLS grade PVC insulated multi stranded copper conductor wires in suitable PVC casing &amp; capping with double interlock, meeting with IB/IS specification. Arrangements to be made for holding the wires in position in trunk, on (<i>Aluminum Plate running on wall of plywood partition</i>)/Plywood partition/ceiling/concrete or brick wall with counter sunk stainless steel wood screw fixed with nylon plug etc. complete with all accessories like right angle bend, outer inner bend, T-stopper, PVC clamps (preferable) suitable pull boxes/ junction boxes of suitable size as per the site condition wherever required &amp; with necessary leads at both ends by approved copper lug, complete as per the instructions of Engineer-in charge.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Connection shall be done with crimped type tinned copper lugs and washers.</li> <li>2. Casing &amp; Capping should be white &amp; make: Precision/Hensel/Asian &amp; circle IS 14927 marked or approved equivalent of the same.</li> <li>3. All PVC insulated copper conductor FRLS grade shall be ISI marked.</li> <li>4. Make of wires: Finolex/ L&amp;T or approved equivalent of the same.</li> <li>5. It may be required to draw multiple wires in single PVC casing capping as per requirement.</li> </ol>						
1.1	01 nos. of 1.5Sqmm wire in PVC casing & capping.	800	Mtr				

02	<p><b>LIGHT FIXTURES:</b>Supply, installation, testing commissioning of LED light fixtures and fittings complete with all accessories, LED tube / lamp/ LED Panels etc. on surface of slab/ beam/ false ceiling by Anchor fasteners /SS counter sunk wood screws, nylon plug etc. suitable supporting frame fixed with rag bolts grouted on the wall/ anchor fastener on the beam/ column &amp; other fixing accessories etc., provision &amp; connection with 1.5sq.mm copper conductor PVC insulated FRLS grade earth wire etc. with the fixture from the existing point, all as per drawing, specifications &amp; as per the instruction of EIC-IOP.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Sample fixture/ fitting shall be got approved from department with complete technical data.</li> <li>2. <b>Warranty of 03 years has to be extended on all the light fittings mentioned below. For which necessary copy of purchase bill and warranty certificate issued by OEM has to be submitted by the bidder for warranty compliance.</b></li> <li>3. <b>10% of the quantity of all lights has to be deposited with IOP EIC for emergency replacement during failure of lights and cost of same has to be included in the quoted price for the quantities mentioned.</b></li> </ol>						
2.1	<p>Surface mounted full lit luminaire with uniform illumination, 2ftx2ft size. Environment Friendly, Energy Efficient, decorative Square, molded body, white light, 24/36W LED light Fixture with opal diffuser to give Glare free light with class-1 electrical safety, complete as required. Make: Crompton (Model-LCTLSNE-36-FO-CDL)/ Bajaj/ Havel or approved equivalent.</p> <p><b>Note: 05 nos. of spare light fittings has to be deposited with IOP for emergency replacement and cost of the same has to be included in the quoted price for quantity mentioned.</b></p>	48	Nos.				

2.2	<p>Surface mounted, 1ftx1ft, Square, LED panel, white light, 18W, 250V, 50Hz to be mounted on the inner concrete surface of the roof. Preferably of CG make Model – LCDSPLN-S-18/ LCTRLN-18-CDL or approved equivalent of the same.</p> <p><b>Note: 10 nos. of spare light fittings has to be deposited with IOP for emergency replacement and cost of the same has to be included in the quoted price for quantity mentioned.</b></p>	100	Nos.				
2.3	<p>Recessed mounted LED 1ft x 4ft Panel ceiling light, full lit luminaire with uniform illumination, Environment Friendly, Energy Efficient, molded body, white light, 40/36W(&gt;100 lm/W). LED light Fixture with opal diffuser to give Glare free light with class-1 electrical safety, complete as required. Make: Crompton (Model- LCTLSNE-40-CDL (1X4))/ Bajaj/ Havel or approved equivalent.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. If any gap remains at the four sides of the light fitting after fixing in the existing gap replacing the old light, same has to be provided with suitable aluminum sheet matching with the light fixture</li> <li>2. The scope of this job includes necessary stays with anchor bolts to hang the light fitting matching with the ceiling.</li> <li>3. <b>03 nos. of spare light fittings has to be deposited with IOP for emergency replacement and cost of the same has to be included in the quoted price for quantity mentioned.</b></li> </ol>	27	Nos.				
3	<p>Supply, Installation, Testing &amp; commissioning of PIR MOTION SENSOR ceiling-mounting, Lighting Management sensor for 1 circuit - 360° Ideal for high ceiling areas. Suitable for low temperature environments (-30° C to +35° C) Range Ø40 m IP 40 without gasket, IP 65 with gasket, Consumption</p>	08	Nos.				



	0.85 W Maximum installation height: 20m, To be installed on surface with dedicated installation accessory included in the box (Legrand Cat.No 0 489 65 or 0 489 66 or approved equivalent) Lighting Management sensors for 1 circuit – Lighting Management sensors for passage areas with natural light. Check presence of natural light level continuously, switch off when there is sufficient natural light. Occupancy mode (automatic switch-on/off factory setting) for vacancy mode (manual switch-on and manual or automatic switch-off) Precise on-site adjustment using configuration tool (via Remote) (Legrand Cat.No 0 88240 or approved equivalent of the same.) Adjustable time delay: 5 s to 59 min Light level threshold adjustable from 5 to 1275 lux Make: Legrand Cat no. 048959 or approved equivalent of the same. All as per the instruction of EIC IOP.						
4	Supply, Installation, Testing, Commissioning of Configuration Tool/Remote Control Make: Legrand Cat.No 0 88240 or approved equivalent of the same.	02	Nos.		-		
5	Supply, Installation, Testing & commissioning of PIR MOTION SENSOR ceiling-mounting, Lighting Management sensor for 1 circuit, Area of detection Radial – Dia 5M, Tangential – 8M, Angle – 360°, Control options Occupancy, Vacancy, Walk through, Day light control On/off output, Double Load on output 2000W – Halogen, 500VA – LED Mounting option Indoor Resist mounting (ceiling) / surface mounting, Standard Mounting Height 2.5M, Configuration options Two way (Remote), Wiring option Terminal, Standby consumption < 1W, Adjustable time delay 5s to 59mins 59secs, Light level threshold 5-1275 Lux, IP rating IP 20, Make: Legrand Cat no.048804 & surface mounting with 048875. Or approved equivalent of the same.	08	Nos.				
	Total (A)						

06	Buy-Back offer for existing old tube light fittings to be replaced, as it is condition without tubes.						
6.1	Recessed mounting 2x40W tube light fitting	27	Nos.		--		
6.2	Surface mounting 2x40W tube light fitting	82	Nos.		--		
6.3	Surface mounting 1x40W tube light fitting	19	Nos.		--		
	Total (B)						
	Grand Total – Total (A) – Total (B)						