



Balmer Lawrie & Co Ltd (बामर लॉरी एंड कंपनी लिमिटेड)
(A Government of India Enterprise) (भारत सरकार का एक उद्यम)
Engineering & Projects (इंजीनियरिंग और परियोजनाएं)
21, Netaji Subhas Road (21, नेताजी सुभाष रोड)
Kolkata - 700 001 (कोलकाता - 700 001)

Installation of CCTV & Allied work

(सीसीटीवी स्थापना और संबद्ध कार्य)

Temperature Controlled Warehouse

(तापमान नियंत्रित गोदाम)

At (पर)

Industrial Estate, Chhatabar, Dist: Khurda, Odisha

(इंडस्ट्रियल एस्टेट, छतबार, डिस्ट्रिक्ट - खुर्दा ओडिशा)

Tender No. EP / TCW / BHU / CCTV / 20

Tender Date: 03.03.2021 (निविदा तारीख: 03.03.2021)

Due Date: 15.03.2021 at 4:00PM (नियत तारीख: 15.03.2021 को 4 बजे)

UNPRICED PART (PART-I) (अमूल्यंकित भाग) (भाग - 1)

VENDOR'S /VENDOR'S INFORMATION

Sl no.	Description	<i>Details to be filled up by Vendor/Vendor</i>
1	Name1 (max. 35 char.)	
2	Name2 (max. 40 char.)	
3	Street/House No. (max. 50 char.)	
4	Street1 (max. 40 char.)	
5	Street2 (max. 40 char.)	
6	PIN Code (Postal Index No. e.g. "700001") (max. 6 char.)	
7	City/Place (e.g. "Kolkata" or "Dehradun") (max. 40 char.)	
8	Country ("India" or "England" or as the name of country be)	
9	State (Name the state from where the office of Vendor/Vendor operates)	
10	First Tel. No.(with STD Code) : (e.g. 033-22225280 or 022-66552814)(max. 30 char.)	
11	First Fax No. (with STD Code)	
12	Contact Person	
13	First Mobile No.	
14	E-mail Address) (max. 40 char.)	
15	Service Tax Registration No. :	
16	PAN No. :	
17	CST No. :	
18	Local Sales Tax No.(VAT) :	
19	Bank Name (max. 60 char.)	
20	Street (max. 35 char.)	
21	City (max. 35 char.)	
22	Branch (max. 40 char.)	
23	IFSC Code	
24	MICR Code	
25	Account No.	
26	Type of Account (Current, Savings, etc.)	

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NOTICE INVITING TENDER
Tender No. EP / TCW / BHU / CCTV / 20

M/s Balmer Lawrie & Co Ltd invite ONLINE BIDS from experienced, competent and resourceful agency with sound technical and financial capabilities for Office Interior & allied work at 1st floor of existing new administrative building for Temperature Controlled Warehouse inside the premises of IDCO Industrial Estate, Chhatabar, Dist: Khurda, Odisha.

1.0 SCOPE OF WORK

The tender under reference covers supply, transportation, loading/unloading, storing and installation of CCTV cameras both indoor/outdoor and extreme cold housing, NVR, Network Switch, Power/Network cabling, Junction Boxes, Supports, Racks, complete commissioning, configuration of the system, training to relevant members and complete documentation. Tenderer shall require to fill in each point as mentioned in the formats of technical specification mandatorily.

2.0 COMPLETION PERIOD

Time is the essence of the contract. The time schedule for total work according to the contract shall be **Eight (8) Weeks** from the date of placement of order or release of work-front whichever is later.

Following preparatory work is included in the above time schedule:

- a. Preparation and submission of all detail drawings of all types of camera, bracket, NVR, system and network architecture, all the relevant catalogues, manuals etc for our review and approval.
- b. Submission of various samples as per approved make prior to taking up the job.

3.0 EARNEST MONEY DEPOSIT

3.1 Unpriced Part of the Bid should be accompanied by a Demand Draft or Bank Guarantee of **Rs 10,000/- (Rupees Ten Thousand only)** towards earnest money deposit (EMD) executed by any scheduled bank drawn in favour of M/s Balmer Lawrie & Co Ltd. payable at Kolkata as per format enclosed. EMD submitted by way of Bank Guarantee should be valid for a minimum period of 90days after the due date of tender submission.

3.2 Earnest Money deposit (EMD) is exempted for agencies registered under NSIC or coming under the definition of Micro and Small Industries and holding valid registration certificates covering the tendered items/work. Declaration of Udyog Aadhar Memorandum (UAM) by the MSE parties on Central Public Procurement Portal (CPPP)

shall be mandatory. Copy of valid NSIC certificate or "Micro and Small" industry certificate must be submitted in this regard.

- 3.3 For the successful bidder, the EMD will be refunded only after they submit the necessary Security Deposit against the work order placed on them.
- 3.4 For the unsuccessful bidders, the EMD will be refunded only after the successful bidder has accepted the work order and the acknowledgment of the same has been received by the owner.
- 3.5 EMD is liable to forfeiture in the event of:
- Withdrawal of offers during validity period of the offer
 - Non-acceptance of orders by the bidder within the stipulated time after placement of order.
 - Any unilateral revision made by the bidder during the validity period of the offer.
 - Non-submission of Security Deposit.
 - Bidders submitting false/fabricated/bogus documents in support of their credentials

4.0 **PRE-QUALIFICATION CRITERIA**

The prospective tenderers shall fulfill the following pre-qualification criteria:

- 4.1 Average annual turnover of the tenderer shall be **Rs 30 lakhs** during last three financial years ending 31st March, 2020.
- 4.2 The tenderer should have successfully executed Installation of CCTV and Allied works of the following minimum values during past seven (7) years ending last day of month previous to the one in which applications are invited should be either of the following: -
- 3 jobs each of value not less than **Rs 8 lakhs** or
 - 2 jobs each of value not less than **Rs 10 lakhs** or
 - 1 job of value not less than **Rs 16 lakhs**

Copy of work orders and completion certificates from the owner or from their consultant should be enclosed as supportive documents. Order copy issued by the owner to the consultant shall also be furnished if the completion certificate is issued by the consultant on behalf of the owner.

- 4.3 Tenderer should have valid PAN, GST registration. Copy of the same shall be submitted along with techno commercial offer.

5.0 **TENDER DOCUMENTS**

Tender Documents comprises two parts viz. Part-I (Un-priced) and Part-II (Priced). The Un-priced Part consists of Notice Inviting Tender, Condition of Contract, Technical Specification and Drawings. The Priced Part consists of Priced Schedule. Bidders are

requested to download the tender document and read all the terms and conditions mentioned in the tender document and seek clarification if any, from **Sri G C Saha, Head (E&P), Mob 9748773900, e-mail: saha.gc@balmerlawrie.com**. Any clause defining offline price bid submission in the tender document shall not be considered.

6.0 TENDER SUBMISSION

The intending tenderers shall be deemed to have visited the site and familiarise themselves thoroughly with the prevailing site conditions before submission of the tender. Non-familiarity with the site conditions will not be considered reason either for extra claim or for not carrying out the work in strict conformity with the drawing, specification and time schedule.

The tenderer is required to register on the e-procurement site <https://balmerlawrie.eproc.in> and submit their bids online.

For registration and online bid submission tenderer may contact the following officials at the HELP DESK of M/s C1 India on browsing to the website <https://balmerlawrie.eproc.in> during business hours (10:00 a.m. to 06:30 p.m.) from Monday to Friday (Excluding holidays of the Company):

Dedicated Helpdesk for Balmer Lawrie			
<u>Contact Person</u>	<u>E-Mail ID</u>	<u>Tel. No.</u>	<u>Days</u>
1. Mr. Tirtha Das (Kolkata)	tirtha.das@c1india.com	+91-9163254290	MON - FRI
2. Mr. CH. Mani Sankar (Chennai)	chikkavarapu.manisankar@c1india.com	+91-6374241783	MON - SAT
3. Ms. Ujwala Shimpi (Mumbai)	ujwala.shimpi@c1india.com	+91-22-66865608	MON - FRI
4. Helpdesk Support (Kolkata)	blsupport@c1india.com	+91-8017272644	MON - SAT
Escalation Level 1			
Mr. Tuhin Ghosh	tuhin.ghosh@c1india.com		+91-8981165071
Escalation Level 2			
Mr. Sandeep Bhandari	sandeep.bhandari@c1india.com		+91-8826814007
Escalation Level 3			
Mr. Achal Garg	achal.garg@c1india.com		
In case, you are unable to get in touch with any of the Technical Support Associates, kindly drop a mail at blsupport@c1india.com mentioning your Name and Mobile No. One of C1 India's associates will get back shortly.			

The tenderer shall authenticate the bid with his Digital Certificate for submitting the bid electronically on e-procurement platform and the bids not authenticated by digital certificate of the tenderer will not be accepted on the e-procurement platform.

All the tenderers who do not have digital certificates need to obtain Digital Certificate **(with both Signing and Encryption Components)**. They may contact help desk of M/s C1 India.

The tenderer shall furnish the original Demand Draft /BG for EMD to the tender inviting authority so as to reach on or before the due date and time of the Tender either personally or through courier or by post and the receipt of the same within the stipulated time shall be the responsibility of tenderer. The Company shall not take any responsibility for any delay or non-receipt. If any of the documents furnished by the tenderer is found to be false/fabricated/bogus, the tenderer is liable for black listing, forfeiture of the EMD, cancellation of work and criminal prosecution.

The bidder is requested to read all the terms and conditions mentioned in the tender Document and seek clarification if any from if in doubt from **Sri G C Saha, Head (Engineering & Projects)**.

The bidder should keep track of any Addendum / Corrigendum / Amendment issued by the Tender Inviting Authority on time-to-time basis in Company's website (www.balmerlawrie.com) and e-procurement site (<https://balmerlawrie.eproc.in>). No separate newspaper advertisement shall be published for such Addendum / Corrigendum / Amendment etc. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.

The tenderer should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the process and steps. M/s C1 India is not responsible for incomplete bid submission by users. Tenderers may also note that the incomplete bids will not be saved by the system and are not available for the Tender Inviting Authority for processing.

Neither the Company (Balmer Lawrie & Co. Ltd.) nor the service provider (M/s C1 India) is responsible for any failure or non-submission of bids due to failure of internet or other connectivity problems or reasons thereof.

The hardcopies of the Bid Documents as explained above and also defined in clause no. 2.0 of Condition of Contract under sealed envelope should reach the office of Head (E&P), Balmer Lawrie & Co Ltd, Engineering & Projects Department, 21 Netaji Subhas Road, Kolkata 700001, on or before the due date of submission of tender. The Bidders who are submitting the Bids in person are requested to drop the same in our tender box located at the entrance of 2nd floor at the above address.

7.0 SUPPLY OF MATERIAL

All materials required for the work shall be supplied by the vendor.

8.0 TAXES & DUTIES

Rates shall be inclusive of all taxes, duties and applicable GST shall be paid separately.

9.0 PAN & GST registration

Tenderers are required to submit PAN, GST registration along with Un-priced part of their offer, failing which their offer shall be liable for rejection.

10.0 NON-CONFORMANCE

Tenders not conforming to the abovementioned requirements are liable to be rejected.

11.0 VALIDITY OF OFFER

Tendered shall keep their offer valid for a period of 120 days from the date of opening of Unpriced bid.

12.0 RATES AND OTHER ENTRIES

- (a) The tenderer should quote for all items in the Schedule of Rates. The rates should be expressed in English both in figures and words. Where discrepancy exists between the two, the rates expressed in words will prevail. Similarly, if there is any discrepancy between unit rate and total amount, the unit rate will prevail.
- (b) The rates should be quoted in the same units as mentioned in the tender schedule of quantities.
- (c) All entries in the tender documents should be in ink / type. Corrections if any should be attested by full signature of the tenderer.
- (d) Every page of the tender document including annexure / enclosures shall be stamped and signed by the tenderer or his authorized representative thereby indicating that each and every page has been read and the points noted.

13.0 RIGHT TO ACCEPT OR REJECT TENDER

13.1 M/s Balmer Lawrie & Co. Ltd. reserves the right to accept or reject any or every tender without assigning any reason whatsoever / or to negotiate with the tenderer (s) in the manner it considers suitable. In the event of receipt of lowest price from more than one (1) bidders, fresh price bids shall be invited from the lowest bidders only to determine final lowest bidder for placement of order. Fresh price bids shall be submitted in a sealed hard envelop within 48 (forty-eight) hours of notification by BLCL.

13.2 Bids of any tenderer may be rejected if a conflict of interest between the bidder and Company (BLCL) is detected at any stage.

- 13.3 All the bids will be evaluated based on pre-qualification and other criteria as mentioned in this NIT. Tenders of those bidders who are not meeting the pre-qualification criteria will not be considered for commercial evaluation.
- 13.4 Tender if submitted through e-mail or fax shall be summarily rejected.
- 13.5 Hard copy of Price Bid should not be submitted in the envelope containing Un-priced documents failing which the bid will be summarily rejected.
- 13.6 **Clarifications /exceptions / deviations to the tender terms & conditions and specifications:**
Balmer Lawrie & Co. Ltd. expects Tenderers to confirm compliance to tender terms & conditions and specifications, failing which the Tenderers are liable to be rejected. Hence all Tenderers in their own interest are advised to submit their bids in all respects confirming to all terms & conditions of the bid document.

Bids shall be evaluated based on the information / documents available in the bid. Hence Tenderers are advised to ensure that they submit appropriate and relevant supporting documentation alongwith their proposal in the first instance itself. Bids not complying the requirements of bid documents will be rejected without any further opportunity.

For any Technical clarifications / queries Tenderers are requested to contact **Sri G C Saha** e-mail: saha.gc@balmerlawrie.com) (from 10.00AM to 06.00PM, Monday - Friday).

for **Balmer Lawrie & Co Ltd.**

(G C Saha)
Head (Engineering & Projects)

CONDITIONS OF CONTRACT

1.0 DEFINITIONS

The following expressions hereunder and elsewhere in the contract documents used shall have the following meanings respectively assigned to them namely,

- 1.1 The "Owner / Employer" shall mean Balmer Lawrie & Co Ltd (BLCL), having its registered office at 21, Netaji Subhas Road, Kolkata - 700 001 and shall include its successors and assigns.
- 1.2 The "Project" shall mean **"Supply, Installation, Commissioning & System Configuration of CCTV and allied work"** at Temperature Controlled Warehouse, Chhatabar, Khurda, Odisha.
- 1.3 The 'Engineer-In-Charge'/'Engineer' shall mean the Engineer /Officer authorized by the 'Owner' for the purpose of the contract for overall inspection, Co-ordination and certification of billing.

2.0 DETAILS OF HARD COPIES TO BE SUBMITTED ALONG WITH THE TENDER

The tender, as submitted, shall consist of the following:

- (i) Hard copy of Un-priced Tender Document duly filled in, stamped and signed by the Tenderer as prescribed in different clauses of Tender documents. **No hard copy of priced bid shall be submitted.** Priced bid shall only be submitted online. The price bid file in pdf format shall be downloaded from the website, bidder to fill in their item-wise rates & amounts on hard copy, stamp, sign, scan and upload the same.
- (ii) Earnest money amounting to and in the manner specified along with the Un-priced bid or valid NSIC/ MSE Certificate
- (iii) The Power of Attorney or authorisation, or any other document consisting of adequate proof of the ability of the signatory to bind the bidder, in original, when the power of attorney is a special "Power of Attorney" relating to the specific tender of Visakhapatnam Port Logistics Pvt Ltd only. A notarized true copy of the "Power of Attorney" shall also be accepted in lieu of the original, if the power of attorney is a general "Power of Attorney". However, photocopy of such notarized true copy shall not be accepted.
- (iv) Similar work in past Seven years by the tenderer with copy of work orders and completion document from the client/ consultant appointed by the client.

- (v) Audited annual report for last three financial years. CA certificate for year 2019-20 shall be acceptable in case the report is not audited.
- (vi) PAN / GST
- (vii) Bank details and any other details as per enclosed format required in terms of this tender.

3.0 RATES AND OTHER ENTRIES

- (a) The tenderer should quote for all items in the Schedule of Rates. The rate should be expressed in English both in figures and words. Where discrepancy exists between the two, the rates expressed in words will prevail. Similarly, if there is any discrepancy between unit rate and total amount, the unit rate will prevail.
- (b) The rates should be quoted in the same units as mentioned in the tender schedule of quantities.
- (c) All entries in the tender documents should be in ink / type. Corrections if any should be attested by full signature of the tenderer.
- (d) Every page of the tender document including annexure / enclosures shall be stamped and signed by the tenderer or his authorised representative thereby indicating that each and every page has been read and the points noted.

4.0 RIGHT TO ACCEPT OR REJECT TENDER

The Owner reserves the right to accept or reject any or every tender without assigning any reason whatsoever / or to negotiate with the tenderer(s) in the manner the Owner considers suitable. The work may be split up if considered expedient.

5.0 SECURITY DEPOSIT

- (i) On acceptance of the Bid, Bidder shall within fifteen (15) days, deposit with Owner an Initial Security Deposit of **3% of the Basic Contract value** and the same shall be in any of the following form:
 - a) Bank draft drawn on a Kolkata Branch of any Scheduled Bank in favour of Balmer Lawrie & Co Ltd.
 - b) Bank Guarantee executed by any Scheduled Bank as per proforma enclosed and shall be valid at least sixty days after the completion of work.
- (ii) If the Bidder fails to provide the Security Deposit within the period specified, such failure will constitute a breach of the Contract and Owner shall be entitled

to award the Work elsewhere at his risk and cost. The EMD of the bidder to whom Contract was awarded, shall be forfeited

- (iii) No interest shall be payable against Security Deposit.
- (iv) Security Deposit will be converted to retention money to successful bidder after completion of job.

6.0 CONSTRUCTION WATER & POWER

Construction water and power shall be provided to the vendor.

7.0 SITE PARTICULARS

This is a green field project. The intending tenderers shall be deemed to have visited the site and familiarised themselves thoroughly with the site conditions before submitting the tender. Non-familiarity with the site conditions will not be considered reason either for extra claims or for not carrying out the work in strict conformity with the drawings and specifications. Sri Purnendu Das (mobile no. 6289090838/ 9836809371) may be contacted during office hours (Monday to Saturday 9.30AM to 6.00PM) to organise site visit.

8.0 SUPPLY OF MATERIAL

8.01 All materials required for the work shall be supplied by the vendor. In addition, all materials required for temporary and enabling work shall be arranged and provided by the Vendor. All incidental expenses, loading, unloading, transportation, handling, storage after delivery etc. shall be the responsibility of the vendor and cost towards such expenses should be included in the finished item rates.

8.02 All other materials, as required to complete the works in all respects according to the contract rates shall be inclusive of all freights and other taxes, duties, loading, unloading, transporting, handling and storage charges etc.

9.0 ON ACCOUNT PAYMENTS

9.01 On Account payments will be made to the Vendor during the progress of the work on the basis of Running Account Bills raised by the Vendor monthly or otherwise as the Engineer-in-Charge may specify in this regard, accompanied with the Measurement sheets signed and dated jointly.

9.02 No Running Bill(s) shall be made and / or certified for a total value of less than Rs 8,00,000/- (Rupees Eight lakh) only.

9.03 All on-account payments shall be subjected to deduction therefrom of all dues to the Owner, advance, retention money and other money deductible within the provisions of this contract and as per Section 194-C of Income Tax Act, or any other Law, Rule or

Regulation for the time being in force along with the recovery towards the adjustment of secured advance if any.

- 9.04 All lawful payments as provided under Workmen's Compensation Act, etc. not made by the Vendor / Sub-vendor, Owner reserves the right to deduct from the Vendor's bills and remitted to the concerned Authority / Department or Body on Vendor's /Sub-vendor's behalf until sufficient proof is furnished by the Vendor / Sub-Vendor to the contrary.

All "On Account" Payments shall be regarded merely as an advance payment against the amounts due to the Vendor in terms of the contract and any such payments shall not be regarded as an acceptance or completion of any works paid for.

10.0 TIME FOR COMPLETION OF WORK

Time is the essence of the contract. The tenderer shall submit their plan to complete the whole work according to the overall time allowed for the execution of work as given in the Tender Documents and NIT.

- 10.0.1 The Vendor shall complete in all respects in accordance with the Contract, the entire work at each job site within the time specified in this behalf in the Time Schedule.
- 10.0.2 If the Owner so requires, the Progress Schedule in the form of CPM, giving the latest dates of starting and latest dates of finishing of various operations comprising the work as also the activities in the critical path and latest dates for achievement of specific milestones in respect of the work so as to complete in all respects the works (including testing and consequential operations) within the time provided in the Time Schedule. This Progress Schedule should also indicate the interlinking of the various activities and bring to light the specific/ critical items on which the inputs from the owner/ Engineer-in-Charge/ Consultant or other agencies, if any, would be required, to ensure adherence to the schedule.
- 10.0.3 If the Vendor shall fail to submit to the Owner/ EIC a Progress Schedule as envisaged above or if the Owner/EIC and Vendor fail to agree upon the Progress Schedule as envisaged above, then the Engineer-in-Charge shall prepare the Progress Schedule (the dates of progress as fixed by the Engineer-in-Charge being final and binding upon the Vendor except as herein otherwise expressed provided), and shall issue the Progress Schedule so prepared to the Vendor, which shall then be the Approved Progress Schedule and all the provisions of clauses 10.0.2 shall apply relative thereto.
- 10.0.4 Any reference in the Contract Documents to the Approved Progress Schedule" or to the "Progress Schedule" shall mean the "Approved Progress Schedule" specified in clause 10.0.2 above or the "Progress Schedule" prepared and issued by the Engineer-in-Charge as specified in clause 10.0.3 above, whichever shall be in existence. In the absence of such approved Progress Schedule or such Progress Schedule prepared by the Engineer-

in-Charge, the Progress Schedule first prepared by the Vendor (with incorporation of the Owner's / Engineer-in-Charge's comments thereon if any), shall until such approved Progress Schedule or such Progress Schedule prepared by the Engineer-in-Charge comes into existence, be deemed to be the Progress Schedule for the purpose of the contract.

10.0.5 Within 7(seven) days of the occurrence of any act, event or omission which, in the opinion of the Vendor, is likely to lead to delay in the commencement or completion of any particular work(s or operation(s) or the entire work at any job site(s) and in such as would entitle the Vendor to an extension of the time specified in this behalf in the Progress Schedule(s), the Vendor shall inform the site engineer and the Engineer-in-Charge in writing of the occurrence of the act, event or omission and the date of commencement of such occurrence. Thereafter, if even upon the cessation of such act or event or the fulfilment of the omission, the Vendor in his opinion that an extension of the time specified in the Progress Schedule relative to the particular operation(s) or item(s) or work or the entire work at the job site(s) is necessary, the Vendor shall within 7 (seven) days after the cessation or fulfilment as aforesaid make a written request to the Engineer-in-Charge for extension of the relative time specified in the Progress Schedule and the Engineer-in-Charge may at any time prior to completion of the work extend the relative time of completion in the Progress Schedule for such period(s) as he considers necessary, if he is of opinion that such act, event or omission constitutes a ground for extension of time in terms of the Contract and that such act, event or omission has in fact resulted in insurmountable delay to the Vendor.

10.0.5.1 The application for extension of time made by the Vendor to the Engineer-in-Charge should contain full details of-

- a) The notice under clause 10.0.5 with a copy each of the notice sent to the Engineer-in-Charge and Site Engineer.
- b) The activity for the Progress Schedule affected.
- c) The bottleneck(s) or obstruction(s) perceived/ experienced, and the reason(s) therefor,
- d) Extension required/ necessitated on account of c) above
- e) Extension required/ necessitated on account of reasons attributable to the Owner,
- f) Extension required/ necessitated on account of force majeure reasons, and
- g) The total extension of time (if any) required/ necessitated for completion, taking the above into account and after eliminating all overlaps.

10.0.5.2 The opinion/ decision of the Engineer-in-Charge in this behalf and as to the extension of time necessary shall, subject to the provisions of clause 10.0.6 hereof, be final and binding upon the Vendor.

10.0.6 Notwithstanding the provisions of clause 10.0.5 hereof, the Owner may at any time at the request of the Vendor made by way of appeal either against the decision of the Engineer-in-Charge taken under clause 10.0.5 or against the Engineer-in-Charge's refusal

to take a decision under the said clause. If satisfied of the work or any item or operation thereof such period(s) as the Owner may consider necessary, and the decision of the Owner as to the existence or otherwise of any grounds justifying the extension and to the period(s) of extension necessary shall be final and binding upon the Vendor.

- 10.0.7 Subject as elsewhere herein or in the contract documents expressly provided, only the existence of force majeure circumstances as defined in 10.0.8 hereof shall afford the Vendor a ground for extension of time for completion of the work or any part of the work or any operation(s) involved therein, and specifically without prejudice to the generality of the foregoing, inclement weather, strike, shutdown, third party breach, delay in supply of material(s) or commercial hardship shall not afford the Vendor a ground for extension of time or relieve the Vendor of his/its full obligations under the Contract, nor will any forced shutdown or idleness or other impediment in progress or completion of the work due to any reason whatsoever afford the Vendor a ground for extension of time or relieve the Vendor of his/its full obligations under the Contract except and to the extent otherwise elsewhere herein specifically provided, nor shall any shut down or idle time charges be payable by the Owner to the Vendor for delay in the commencement, progress or completion of the work due to any reason whatsoever, including due to the existence of force majeure circumstances.
- 10.0.8 The term "Force Majeure" as employed in this contract shall mean wars (declared or undeclared) or revolutions, civil wars, tidal waves, fires, major floods, earthquakes, epidemics, pandemic, quarantine restrictions and freight embargoes and transporters strike affecting the country as a whole.
- 10.0.9 Upon an extension of the time for completion of the work or any part of the work or any operation(s) involved therein pursuant to clause 10.0.5 or clause 10.0.6 hereof, the extended date/time of completion shall be deemed to be the relative date of completion in the Progress Schedule, and such extension shall constitute the sole remedy of the Vendor for and/or arising out of such delays, and the Vendor hereby waives any and all contrary rights.
- 10.0.10 The mere fact that the Owner shall not have terminated the contract or that the Owner or Engineer-in-Charge has permitted the Vendor, for the time being to continue with the work for its completion shall not prejudice the full rights and remedies available to the Owner under the contract arising out of the delayed completion, including the right of Liquidated Damages and/or termination. Such permission(s) shall unless specifically stated to be an extension of time under clause 10.0.5 or 10.0.6, as the case may be, not be construed as extension(s) of time extension under clause 10.0.5 or 10.0.6 hereof, and shall merely constitute an indication or intimation, as the case may be, of the Owner's willingness, for the time being, to accept the delayed completion, subject to its rights under the contract.

10.0.11 No assurance, representation, promise or other statement by any personnel, engineer or representative of the Owner in relation to extension of time for commencement or completion of any work(s) or operation thereof or of the entire works under the contract shall be binding upon the Owner or shall constitute an extension of time for commencement or completion of the entire works or any part or operation thereof within the provisions of clause 10.0.5 or 10.0.6 hereof, unless the same has been communicated to the Vendor in writing by the Engineer-in-Charge under clause 10.0.5 or by the General Manager under clause 10.0.6 and in writing specifically states that it embodies an extension of time within the provisions of clause 10.0.5 or clause 10.0.6 as the case may be, and without prejudice to the afore-going, the mere agreement or prescription or signing of a Progress Schedule by the site engineer or any site representative of the Owner at variance of the progress schedule, as the case may be, referred to in clauses 10.0.2, 10.0.3 and/or 10.0.4 hereof or containing an extended time of commencement or completion in respect of the entire work(s) or any part or operation thereof shall not anyway constitute an extension of time in the terms of the Contract so as to bind the Owner or relieve the Vendor of all or any of his liabilities under the Contract, nor shall constitute a promise on behalf of the owner or a waiver by the Owner of any of its rights in terms of the contract relative to the performance of the contract within the time specified or otherwise, but shall be deemed only (at the most) as a guidance to the Vendor for better organising his work on a recognition that the Vendor has failed to organise his work and/or perform the same within the time specified in the Progress Schedule established within the provisions of clause 10.0.2 or clause 10.0.3 or clause 10.0.4 hereof, as the case may be.

11.0 WORKS CONTRACT

The entire work as per the scope of work covered under this contract shall be treated as "WORKS CONTRACT". Taxes, duties other than GST shall be included in the quoted price. GST at applicable rate to be shown separately.

12.0 LABOUR LAWS

- (i) No Labour below the age of eighteen (18) years shall be employed on Work.
- (ii) Vendor shall not pay less than what is provided under law to labourers engaged by him on Work.
- (iii) Vendor shall at his expense comply with all labour laws and keep Owner indemnified in respect thereof.
- (iv) In addition to above, rules and regulations as contained in Contract Labour (Regulation and Abolition) Act, 1970 will also be applicable for this contract. For the purpose of registration as per the above Act, Vendor may contact Owner for further details.

- (v) Vendor shall secure full safety of the workers / employees engaged by him in the Site premises and shall take at his own cost, insurances and such other safety regulations for the said purpose.

13.0 IMPLEMENTATION OF APPRENTICES ACT 1964

Vendor shall comply with the provisions of the Apprentices Act, 1964 and the Rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of Contract and the Engineer-in-Charge may, at his discretion, cancel Contract. Vendor shall also be liable for any pecuniary liability arising on account of any violation by him of the provision of the Act.

14.0 INSURANCE & INDEMNITY

Vendor shall at his own expense carry out and maintain insurance with reputable companies to the satisfaction of the Owner as follows:

(i) **Employees' Compensation Insurance:**

Insurance shall effect for all vendors' employees engaged in the performance of this Contract. If any of the work is sublet, after necessary approval by the Owner, the vendor shall require the Sub-vendor to provide 'Employees Compensation Insurance' for the Sub-vendor's employees, if such employees are not covered under the Vendor's Insurance.

It shall be responsibility of the vendor to ensure that he conforms to the various provisions of numerous statutory Acts as indicated below wherever applicable in respect of contract labour to be engaged by him. He shall also indemnify the Company against all losses/claims in respect of injuries to any contract labour engaged by him or physical damage to any Company property/company employees whatsoever, arising out of the execution of the work/carrying out of the contract. The vendor shall also indemnify the Company against claims or losses arising on account of non-compliance of statutory provisions or for any reason whatsoever in respect of the various Acts mentioned below or any other Act not mentioned hereunder which are relevant and applicable in the context:

- Contract Labour (Regulations & Abolitions) Act 1970
- Employees Provident Fund & Miscellaneous Provision Act 1952
- Employees State Insurance Act 1948
- Minimum Wages Act 1948
- Payment of Wages Act 1936
- Employees' Compensation Act 1923
- Payment of Bonus Act 1965
- Labour Welfare Fund.
- Building and other construction worker's Act 1996 and rule 1998

15.0 LIQUIDATED DAMAGE

- (i) If the Vendor is unable to complete the jobs specified in the scope of work within the period specified in NIT, it may request owner for extension of the time with unconditionally agreeing for payment of liquidated damage. Upon receipt of such a request, owner may at its discretion extend the period of completion and shall recover from the Vendor's running account bill, as an ascertained and agreed Liquidated Damages, a sum equivalent to **0.5%** of contract value for each week of delay or part thereof. The LD shall be limited to **5%** of the basic contract value.

The parties agree that the sum specified above is not a penalty but a genuine pre-estimate of the loss/ damage which will be suffered by the owner on account of delay/ breach on the part of the Vendor and the said amount will be payable without proof of actual loss or damage caused by such delay/breach.

- (ii) Notwithstanding what is stated in Clause above, the Owner shall have the right to employ any other agency to complete the remaining work at the risk and cost of the Vendor, in the event of his failing to complete the work within the stipulated time or in the even progress of Vendor's work is behind schedule, as judged by the engineer-in-charge.
- (iii) Then the Engineer-in-Charge upon receiving necessary approval from competent Authority may in writing make a fair and reasonable extension of time for completion of the works as per provision of clause no. 10, provided further that the Vendor shall constantly use his best endeavour to the satisfaction of the Engineer-In-Charge to proceed with the works. Nothing herein shall prejudice the rights of the Vendor under clause herein above.
- (iv) The vendor may seek time extension for delay or anticipated delay as per clause no. 10.0.5 for reasons not attributable to them and in such case time extension may be given without imposition of Liquidated Damage.

16.0 FORCE MAJEURE

As explained in Clause no. 10.0.7.

17.0 TERMS OF PAYMENT

17.01 No mobilisation advance shall be paid to the vendor.

17.02 100% of the Running Account bill value will be payable by the Owner after submission of Bills accompanied by the relevant documents duly certified by Engineer-in-Charge within 20days.

- 17.03 10% of the above running account bills (basic value) shall be deducted from above payment towards retention money.

During payment of monthly running account bills, the initial security deposit of 3% of basic contract value will be adjusted first against 'Retention Money'. The retention money will be released after completion and acceptance of work against issue of Bank Guarantee of the equal amount for defect liability and performance maintenance period, which shall be twelve (12) months from the date of issue of completion certificate by the Engineer-in-Charge.

18.0 ARBITRATION

Any dispute or difference arising under this Contract shall be referred under jurisdiction of Kolkata to a sole arbitrator to be appointed by the Chairman & Managing Director, Balmer Lawrie & Co. Limited and the provisions of Arbitration and Conciliation (Amendment) Act, 2015 including any statutory modifications or enactment thereof shall apply to the Arbitration proceedings. The fees of the arbitrator, if any, shall be shared equally by both the parties. The award shall be a speaking award stating reason therefor and is final & binding on the parties. The proceeding shall be conducted in English language and courts at Kolkata will have exclusive jurisdiction to settle any dispute arising out of this contract.

- 18.1 Notwithstanding the existence of any dispute or arbitration in terms hereof or otherwise, the Vendor shall continue and to be bound to continue and perform the works to completion in all respects according to the Contract (unless the Contract or works be determined by the Owner) and the Vendor shall remain liable and bound in all respects under the Contract.

19.0 EXTRA ITEMS OF WORK

During the course of execution of the work, should the vendor come across items of work which are not covered under the Schedule of Rate or not included therein, the Vendor shall draw the attention of the Owner / Engineer-in-Charge to the same and such items of work shall be treated as extra only with the prior approval of Engineer-in-Charge in writing. Vendor shall submit a quotation along with the rate analysis for such accepted extra items before he commences work or purchases the materials in connection with such items.

For extra items, rates shall be derived from similar item rates included in the schedule of work. Where there is no such similar item available in the schedule, rate shall be analysed as follows:

Rate for extra item = Cost of material (a) + cost of labour inclusive of all necessary tools, tackles, equipment, machinery and consumable (b) required to carry out the work + 15% of (a+b) towards profit and overhead + taxes, duties etc.

20.0 RIGHT OF OWNER TO TERMINATE THE CONTRACT

- (i) If the Vendor being an individual or a firm commits any 'Act of Insolvency' or shall be adjudged as insolvent or being an Incorporated Company shall have an order for compulsory winding up made against it, or pass an effective resolution for winding up voluntarily or subject to the supervision of the Court or shall be unable to carry out and fulfil the contract and to give security therefore, is so required by the Engineer-In-Charge.

Or if the Vendor (whether an individual, firm or incorporated company) shall suffer execution to be issued.

Or shall suffer any payment under this Contract to be attached by or on behalf of any of the creditors of the vendor.

Or shall assign or charge, encumber or sublet this contract without the consent in writing of the Engineer-in-Charge first obtained.

Or shall charge or encumber this contract or any payments due or which may become due to the Vendor thereunder.

Or if the Engineer-in-Charge shall certify in writing to the Owner that the Vendor -

- a) has abandoned the Contract or
- b) has failed to commence the works, or has without any lawful excuse under these conditions, suspended the progress of the works for 14 days after receiving from the Engineer-in-Charge written notice to proceed or
- c) has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon or
- d) has failed to remove materials from the site or to pull down and replace work for seven days after receiving materials or work were condemned and rejected by the Engineer-in-Charge under these conditions or
- e) has used sub-standard or inferior material or materials not conforming to the specifications or has employed inferior workmanship in carrying out the works or part thereof or has not exercised due diligence in execution of the said work, or

has neglected or failed persistently to observe and perform all or any of the acts, deeds, matters or things by this Contract to be observed and

performed by the Vendor requiring the Vendor to observe or perform the same, or

- f) has to the detriment of good workmanship or in defiance of the Engineer-in-Charge's instructions to the contrary, sub-let or sub-contracted any part of the contract, or
- g) has failed to comply with the Engineer-in-Charge's instructions, or
- h) has in the opinion of the Engineer-in-Charge committed any breach of this Contract, then and in any of the said cases the Owner with the written consent of the Engineer-in-Charge may notwithstanding any previous waiver, after giving seven days' notice in writing to the Vendor terminate the Contract, but without hereby affecting the right of the Owner of the powers of the Engineer-in-Charge or the obligations and liabilities of the Vendor in respect of work, the contract shall continue enforce as fully as if the contract has not been so determined and the obligations of the vendor in respect of work subsequently executed shall continue as if the works subsequently executed has been executed by or on behalf of the Vendor. And further, the Owner by its agents or servants shall be titled forthwith to enter upon and take possession of the works and all plants, tools, scaffoldings, sheds, machinery, steam and other power implements, machinery equipment and materials lying upon the site or the adjoining lands or roads and use the same as its own property and to employ the same by means of its own servants and workmen in carrying on and completing the work or by employing any other vendor and the Vendor shall not in any way interrupt or do any act, matter or things to prevent, intimidate or hinder such other vendor or other person or persons employed for completing and finishing or using the materials and plant for the work. When the works shall be completed or as soon thereafter as convenient, the Engineer-In-Charge shall give a notice in writing to the Vendor to remove his surplus materials and plant and should the Vendor fail to do so within the period of 14 days after receipt thereof by him, the Owner shall sell the same either by public auction or a private sale and shall be given credit to the vendor for the amount realized. The Engineer-In-Charge shall thereafter ascertain and certify in writing under this hand what (if anything) shall be due or payable to or by the owner, the expense or loss which the owner shall have been put to in procuring the works to be completed and the amount, if any, owing to the vendor and the amount which shall be so certified, shall thereupon be paid by the owner to the Vendor or by the Vendor to the Owner, as the case may be and the Certificate of the Engineer-In-Charge shall be final and conclusive and binding on the parties hereto. In the event of termination under this Clause, the Owner

shall not be bound by any provision of this Contract to make any further payment to the Vendor until the said works are completed.

- (ii) Owner shall, at any time, be entitled to determine and terminate the Contract, if in the opinion of the Owner the cessation of the Work becomes necessary owing to paucity of funds or for any other cause whatsoever, in which case the cost of approved materials at the Site at current market rates as verified and approved by Engineer-in-Charge and of the value of the Work done to date by the Vendor shall be paid for in full at the specified in the Contract. A notice in writing from the Owner to the Vendor of such determination and termination and the reason therefore shall be the conclusive proof of the fact that the Contract has been so determined and terminated by the Owner.
- (iii) Should the Contract be determined under sub-clause of this clause and the Vendor claims payment to compensate expenditure incurred by him in the expectation of completing the Work, the Owner shall consider and admit such claim as are deemed fair and reasonable and are supported by the vouchers to the satisfaction of the Engineer-in-charge. The Owner's decision on the necessity and propriety of such expenditure shall be final and conclusive and binding on the Vendor.

21.0 HSE REQUIREMENTS BY VENDORS

Housekeeping

Vendors shall ensure that their work area is kept clean tidy and free from debris. The work areas must be cleaned on a daily basis. Any disposal of waste shall be done by the Vendor.

All equipment, materials and vehicles shall be stored in an orderly manner. Access to emergency equipment, exits, telephones, safety showers, eye washes, fire extinguishers, pull boxes, fire hoses, etc. shall not be blocked or disturbed.

Confined Space

Before commencing Work in a confined space, the Vendor must obtain from Owner a Permit to Work, the Permit to Work will define the requirements to be followed.

As minimum Vendors must ensure the following:

- a) Confined spaces are kept identified and marked by a sign near the entrances
- b) Adequate ventilation is provided

- c) Adequate emergency provisions are in place
- d) Appropriate air monitoring is performed to ensure oxygen is above 20%
- e) Persons are provided with Confined Space training.
- f) All necessary equipment and support personnel required to enter a Confined space is provided.

Tools, Equipment and Machinery

The Vendor must ensure that all tools & equipment provided for use during the Work is:

- a) suitable for its intended use;
- b) safe for use, maintained in a safe condition and where necessary inspected to ensure this remains the case (any inspection must be carried out by a competent person and records shall be available);
- c) Used only by people who have received adequate information, instruction and training to use the tool or equipment.
- d) Provided with Earth leakage circuit breaker (ELCBs) at all times when using electric power cords. Use of electrical tape for temporary repairs is prohibited.

Working at Height

Any Work undertaken where there is a risk of fall and injury is considered to be working at height.

For any Vendor Personnel working at height, Vendors shall provide fall prevention whenever possible and fall protection only when fall prevention is not practicable. Before commencing Work in a height, the Vendor must obtain from Owner a Permit to Work, the Permit to Work will define the requirements to be followed. Supervisor must be present at all point of time, to ensure no deviation occur during the course of work.

Fall Prevention System

Fall prevention systems (e.g. fixed guardrails, scaffolds, elevated work platforms) must provide protection for areas with open sides, including exposed floor openings.

Fall Protection Systems

Where fall protection systems are used then the Vendor must ensure the following is applied:

- (ii) Only approved full body harness and two shock-absorbing lanyards are used,
- (iii) Prior establishment of a rescue plan for the immediate rescue of an employee in the event they experience a fall while using the system,
- (iv) Anchorage points must be at waist level or higher; and capable of supporting at least the attached weight,
- (v) Lifeline systems must be approved by Owner before use.
- (vi) Use of ISI marked industrial helmet at all point of time.

Scaffolding

All scaffolds shall subject to a documented inspection by a competent person and clearly marked prior to use. The footings or anchorage for scaffolds shall be sound, rigid and capable of carrying the maximum intended load without settling or displacement. All scaffolding materials should be of MS tubular type.

Guardrails and toe-boards shall be installed on all open sides and ends of scaffold platforms. Scaffolds shall be provided with an access ladder or equivalent safe access. Vendor Personnel shall not climb or work from scaffold handrails, mid-rails or brace members.

Stairways and Ladders

Ladders should only be used for light duty, short-term work or access in line with the below and the Site Requirements.

- i) Fabricated ladders are prohibited.
- ii) Ladders will be secured to keep them from shifting, slipping, being knocked or blown over.
- iii) Ladders will never be tied to facility services piping, conduits, or ventilation ducting.
- iv) Ladders will be lowered and securely stored at the end of each workday.

- v) Ladders shall be maintained free of oil, grease and other slipping hazards
- vi) Ladders will be visually inspected by a competent person and approved for use before being put into service. Each user shall inspect ladders visually before using.
- vii) Ladders with structural defects shall be tagged "Do Not Use," immediately taken out of service, and removed from the Site by the end of the day.

Lifting Operations

Cranes and Hoisting Equipment

Vendors shall operate and maintain cranes and hoisting equipment in accordance with manufacturer's specifications and legal requirements.

Only Vendor Personnel trained in the use of cranes and hoists are permitted to use them.

Lifting Equipment and Accessories

All lifting equipment / accessories e.g., slings, chains, webbing, chain blocks, winches, jacks etc shall be indicated with their safe working load have an identification number visible on the unit and be inspected and tested in accordance with legal requirements.

Damaged equipment / accessories and equipment shall be tagged "out of use" and immediately removed from Site.

Lockout Tag out ("LOTO")

Prior to performing work on machines or equipment, the Vendor shall ensure that it is familiar with LOTO and Permit to Work procedures and that all of its affected Vendor Personnel receive the necessary training.

Barricades

Floor openings, stairwells, platforms and walkways, and trenching where a person can fall any distance shall be adequately barricaded and where necessary, well lit. Where there is a risk of injury from a fall then rigid barriers must be used.

Barricades must also be used to prevent personnel entering an area where risk of injury is high e.g., during overhead work activity or electrical testing etc. Such barricading must provide clear visual warning.

Compressed Gas Cylinders

Gas cylinder shall be securely stored and transported, and identified and used in line with the local requirements. Hose lines shall be inspected and tested for leaks in line with local requirements. Flash Back arrestor to be used to prevent any explosion due to back fire.

Electrical Safety

Prior to undertaking any work on live electrical equipment, the Vendor must obtain a Permit to Work from Owner. Where ever possible live work should be avoided. Any control measures highlighted shall be implemented prior to work commencing.

The below measures will be taken:

- a) Work practices must protect against direct or indirect body contact by means of tools or materials and be suitable for work conditions and the exposed voltage level.
- b) Energized panels will be closed after normal working hours and whenever they are unattended. Temporary wiring will be de-energized when not in use.
- c) Only qualified electrical Vendor Personnel may enter substations and/or transformer and only after being specifically authorized by Owner.

Hot Works

A Permit to Work must be obtained from Owner prior to any hot works (welding, grinding, open flame work). Suitable fire extinguishing equipment shall be immediately available. Objects to be welded, cut or heated shall be moved to a designated safe location, or, if they cannot be readily moved, all movable fire hazards in the vicinity shall be taken to a safe place. Personnel working around or below the hot works shall be protected from falling or flying objects.

Prior to the use of temporary propane or resistance heating devices approval must be obtained from Owner.

Trenching, Excavating, Drilling and Concreting

A Permit to Work must be obtained from Owner and all underground lines, equipment and electrical cables shall be identified and located prior to beginning the work. The Vendor shall assign a competent Vendor Personnel to all trenching and excavation work.

Safe means of access and egress shall be located in trench excavations. Daily inspections shall be conducted by a competent Vendor Personnel for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems or other hazardous conditions.

Physical barriers shall be placed around or over trenches and excavations. Flashing light barriers shall be provided at night.

Environmental Requirements

Waste Management

The Vendor is responsible to remove any waste generated by the work being done on the Site. The Vendor must dispose of the waste in line with the relevant local legislative requirements. The waste disposal route shall be documented and made available for Owner to review at any time and may be subject to Owner's prior approval.

Wastes (includes rinse from washing of equipment, PPE, tools, etc) are not to be poured into sinks, drains, toilets, or storm sewers, or onto the ground. Solid or liquid wastes that are hazardous or regulated in any way are not to be disposed of in general site waste receptacles.

Spills

The Vendor is responsible for the provision of adequate spill kits/protection and the clean-up and disposal costs arising from such spills.

Emissions

The Vendor shall identify and quantify any emission sources associated with the Works. The control measures associated with these emission shall be subject to the approval of Owner's Emissions include but are not limited to noise, dust, fumes, vapours.

22.0 PENALTIES IN CASE OF NON-COMPLIANCE OF SAFETY/HEALTH/ENVIRONMENT NORMS, RULES & REGULATIONS

The vendor has to follow all norms, rules and regulations related to safety, health and environment, In case of non-compliance of any one of these norms, rules and regulations by vendor's employee, the vendor shall be held responsible. If any violation or non-fulfilment of these norms, rules and regulation is observed by the Company's authority during checking at any time, a penalty of Rs 5000/- shall be imposed on the vendor for each occasion of non-compliance to these rules and regulations by him of his employees. The decision of the Company's authority shall be final and binding on to the vendor in this regard. The amount of penalties so imposed shall be recovered from the next RA Bill of the work or any other dues payable to the vendor by the authority.

BANK GUARANTEE VERIFICATION CHECK LIST

<u>CHECK LIST</u>	<u>YES</u>	<u>NO</u>
I Does bank guarantee compare verbatim with standard Balmer Lawrie & Co Ltd proforma for BG	_____	_____
II. a. Has the executing officer of the BG indicated his name, designation and power of attorney No./ Signing Power No. etc. on BG	_____	_____
b. Is each page of BG duly signed/initialed by the executant and last page is signed with full particulars as required in the Balmer Lawrie's standard proforma of BG and under the seal of the Bank.	_____	_____
c. Does the last page of the BG carry the signature of two witnesses alongside the signature of the executing Bank Manager	_____	_____
III. a. Does the non-judicial stamp paper for BG purchase in the name of BG issuing Bank	_____	_____
b. Is the BG on non-judicial Stamp paper of value Rs. 100/- (Rupees One Hundred only)	_____	_____
c. Is the date of sale of non-judicial stamp paper shown on the BG and the stamp paper is issued not more than six months prior to date of execution of BG	_____	_____
IV. a. Are the factual details such as bid specifications No., LOI No., Contract price etc. correct	_____	_____
b. Whether over-writing/ cutting, if any on the BG authenticated under signature and seal of executant	_____	_____
V. a. Is the amount of BG in line with contract provisions / agreement /tender	_____	_____
b. Is the validity of BG in line with contract provisions / agreement /tender	_____	_____
VI. Covering letter from bank enclosed with the BG	_____	_____
VII. BG shall be from a Nationalised/ Scheduled Bank only	_____	_____

PROFORMA OF THE GUARANTEE
BID BOND/ EARNEST MONEY DEPOSIT
(ON NON-JUDICIAL PAPER OF APPROPRIATE VALUE)

To
 Balmer Lawrie & Co. Ltd.
 Kolkata- 700 001

Whereas (Name of the bidder) (hereinafter called "the Bidder") has submitted its bid for the (purpose) (hereinafter called "the Bid") against Tender reference No. dated M/S. BALMER LAWRIE & CO. LTD., 21 Netaji Subhas Road, Kolkata – 700 001.

The conditions of Tender provide that the Bidder shall pay a sum of Rs..... (Rupees only) (hereinafter called "the said amount") as full Earnest Money Deposit in the forms therein mentioned. The forms of payment of Earnest Money Deposit include guarantee to be executed by a Scheduled Bank.

The said (name and address of the Bidder) have approached us and at their request and in consideration of the premises we, (Name of the Bank) having our office at(address of the Bank) have agreed to give such guarantee as herein after mentioned.

Know All Men by these presents, we,(name of the Bank) of(address of the Bank) having our office, inter alia, at (hereinafter called "the Bank") are bound unto BALMER LAWRIE & CO. LTD.....(address) (hereinafter called "the Purchaser") in the sum of Rs. (Rupees only) for which payment will truly be made to the Purchaser, the Bank binds itself, its successors and assigns by these presents this day of 2021.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the bid form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity;
 - a) fails or refuses to execute the Contract Form if required; or
 - b) fails or refuses to furnish the Performance Security, in accordance with the instructions to Bidders.

Contd....2/-

[2]

We undertake to pay the Purchaser up to the said amount upon receipt of its first written demand, without the Purchaser having to substantiate their demand, provided that in their demand the Purchaser shall mention that the amount claimed by them is due owing to the occurrence of one or both of the two conditions.

This guarantee will remain in force upto (date of expiry) including the days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

Notwithstanding anything contained herein:

- i) Our liability under the Bank Guarantee shall not exceed Rs. (Rupees only)
- ii) This Bank Guarantee shall be valid upto
- iii) We are liable to pay the guaranteed amount or pay part thereof under this Bank Guarantee only if you serve upon us a written claim or demand on or before (last date of validity)

We, (name of the Bank) undertake not to revoke this guarantee during its currency except with your previous consent in writing.

We have power to issue this guarantee in your favour under our Memorandum and Articles of Association and the undersigned has full power to do and execute this Guarantee under the Power of Attorney dated day of 2021 granted to him by the Bank.

Your faithfully,

(Specimen Signature)

BANK GUARANTEE
(PERFORMANCE)
(ON NON-JUDICIAL PAPER OF APPROPRIATE VALUE)

Letter of Guarantee No.

Dated : the day of

THE GUARANTEE is executed at Kolkata on the day of by
.....(set out full name and address of the Bank) (hereinafter referred to as "the Bank"
which expression shall unless expressly executed or repugnant to the context or meaning
thereof mean and include its successors and assigns).

WHEREAS Balmer Lawrie & Co. Ltd. (local address), an existing
company within the meaning of the Companies Act, 1956 and having its Registered Office at 21,
Netaji Subhas Road, Kolkata – 700 001 (hereinafter referred to as "the Company") issued a
Tender being No. dated (hereinafter referred to as "the said Tender")
for (set out purpose of the job) and pursuant thereto Messrs/ Mr.
.....(set out full name and address of the Vendor) (hereinafter referred to as "the
Vendor" which term or expression wherever the context so requires shall mean and include the
partner or partners of the
Vendor for the time being/his/its heirs, executors, administrators, successors and assigns)
(delete which are not applicable) has accepted the said Tender and field its quotation.

AND WHEREAS the quotation of the Vendor had been accepted by the Company and in
pursuance thereof an Order being No..... dated (hereinafter referred to as
"the said Order") has been placed by the Company on the Vendor for (set out purpose of the
job).

AND WHEREAS under the terms of the said Order the Vendor is required to furnish the
Company at their/his/its own costs and expenses a Bank Guarantee for
Rs.....(Rupees only) as performance guarantee for the
fulfilment of the terms and conditions of the said Tender and to do execute and perform the
obligations of the Vendor under the Agreement dated the day of
(hereinafter referred to as "the Agreement ") entered into by and between the Company of the
one part and the Vendor of the other part, the terms of the said Tender and the terms
contained in the said Order which expression shall include all amendments and/or
modifications/or variation thereto.

AND WHEREAS the Vendor had agreed to provide to the Company a Bank Guarantee as security
for the due performance of their/his/its obligations truly and faithfully as hereinbefore
mentioned.

Contd....2/-

[2]

NOW THIS GUARANTEE WITNESSETH as follows:

1. In consideration of the aforesaid premises at the request of the Vendor, we (set out the full name of the Bank) the Bankers of the Vendor shall perform fully and faithfully their/his/its contractual obligations under the Agreement dated the day of entered into by and between the Company of the one part and the Vendor of the other part, the terms and conditions of the said Tender and the said Order.
2. We, (set out full name of the Bank) do hereby undertake to pay to the Company without any deduction whatsoever a sum not exceeding Rs..... (Rupees only) without any protest, demur or proof or condition on receipt of a written demand from the Company stating that the amount claimed is due by way of loss and damage caused to or would be caused to or suffered by the Company due to bad workmanship or by reason of breach of any of the terms and conditions of the Agreement, the said Tender and the said Order hereinbefore mentioned.
3. The Guarantee is issued as security against due performance of the obligations of the Vendor or under the Agreement aforesaid and the said Tender and the said Order hereinbefore mentioned and subject to the conditions that our liabilities under this Guarantee is limited to a maximum sum of Rs..... (Rupees only) or the amount of loss or damage suffered or to be suffered by the Company in its opinion at any period of time, whichever is lower.
4. We, (set out full name of the Bank) further agree that the undertaking herein contained shall remain in full force for a period of months from the date of the satisfactory execution of the Contract.
5. This Guarantee shall not be affected by any amendment or change in the Agreement or change in the constitution of the Bank and/or the Company and/or the Vendor.
6. We (set out full name of the Bank) undertake not to revoke this Agreement during its currency except with the previous consent of the Company in writing.
7. All claim under this Guarantee must be presented to us within the time stipulated after which date the Company's claim/right under this Guarantee shall be forfeited and we,(set out full name of the Bank) shall be released and discharged from all liabilities hereunder.

Contd....3/-

[3]

8. This instrument shall be returned upon its expiry or settlement of claim(s) if any, thereunder.
9. Notwithstanding anything contained hereinbefore our total liabilities under this Guarantee shall not exceed a sum of Rs..... (Rupees only) and unless a demand or claim in writing under this Guarantee reaches us on or before the date of (last date of claim) and if no claim is received by us by that date all rights and claims of the Company under this Guarantee shall be forfeited and we,(set out full name of the Bank) shall be released and discharged of all our liabilities under this Guarantee thereafter.
10. We have power to issue this guarantee in your favour under our Memorandum and Articles of Association and the undersigned has full power to execute this Guarantee under Power of Attorney dated the day of granted to him by the Bank.

Place :

Date :

**PROFORMA OF THE GUARANTEE
(SECURITY DEPOSIT)**

Balmer Lawrie & Co. Ltd.
Kolkata- 700 001

Dear Sir,

That Messrs/Mr.(set out full name and address and constitution of the Vendor) (hereinafter referred to as "the Vendor") filed their/his/its quotation against your Tender being Tender No. dated (hereinafter referred as "the said Tender") for the work (set out the purpose of the job) and in pursuance thereto an Order being No. dated (hereinafter to as "the Order") was issued by you to the Vendor.

The conditions of the said Tender, inter alia, requires that the Vendor shall pay a sum of Rs..... only) as full security deposit (hereinafter referred to as "the security deposit") in the form therein mentioned. The form of payment of security deposit includes a guarantee to be executed by a Scheduled Bank.

The said Messrs/Mr. (set out full name of the Vendor) have/has approached us and at their/his/its request and in consideration of the premises We (set out full name of the Bank) having our office, inter alia at (state the address of the Bank) have agreed to give such guarantee in the manner following :

- 3 We, (set out full name of the Bank), hereby undertake with you if default is made by Messrs/Mr. (set out full name of the Vendor) in performing any of the terms and conditions of the Tender and/or in payment of the security deposit or any other or in payment of money payable to you. We, (set out full name of the Bank) shall merely on demand from you without demur or protest shall pay you the said amount of Rs..... (Rupees only) or such portion thereof not exceeding the said sum as you may demand from time to time.
2. We, (set out full name of the Bank), further agree with you that you hereunder to adopt any mode for realisation of your dues from the Vendor and/or to vary any of the Terms and Conditions of your Contract with the said Messrs/Mr. (set out full name of the Vendor), or to extend time of performance by Vendor from time to time or to postpone for any time or from time to time any of the powers exercisable by you against Vendor and to forbear or enforce any of the terms and conditions relating to the Contract and we, (set out full name of the Bank) shall not be relieved from our liability by reason of any such variation, or any indulgence to be given by you to the Vendor or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so releasing us.

Contd.....2/-

[2]

3. Your right to recover the said sum of Rs..... (Rupees only) from us in the manner aforesaid will not be affected or suspended by reason of the fact that any dispute or disputes is/are pending before any Officer, tribunal, court or any other authority or authorities.
4. The guarantee herein contained shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the said Messrs/Mr. (set out the full name of the Vendor), but shall in all respect, and for all purposes be binding and operative until payment of all the money due to you in respect of such liabilities is paid,
5. Our liability under this guarantee is restricted to Rs. (Rupees only).
6. Our guarantee shall remain in force and effect until (set out the date of expiry) and unless a claim or demand in writing is made against us under this guarantee before the expiry of six months from the aforesaid date i.e. (set out last date of Claim period), the said Guarantee all your rights under this guarantee shall be forfeited and we, (set out full name of the Bank) shall be relieved and discharged from all liabilities thereunder.
7. We , (set out full name of the Bank) undertake not to revoke this Guarantee during its currency except with your previous consent in writing.
8. We, (set out full name of the Bank) have power to issue this Guarantee in your favour under our Memorandum and Articles of Association and the undersigned has full power to execute/sign this Guarantee under the Power of the Attorney dated the day of Two Thousand and Twenty One granted by the Bank.

Yours faithfully,

Dated : (Place)

.....(Date)

.....
 (Signature of Officer on
 behalf of)
 (Set out name of the Bank)

TECHNICAL SPECIFICATIONS

A. Technical Specifications for 2 MP IR Network Bullet Cameras

Sl. No.	Parameter	Owner's Required Specification	Bidder's Confirmation
	Camera		
1.0	Image Sensor	1/2.8" 2Megapixel progressive scan CMOS	
2.0	Effective Pixels	1920(H) x 1080(V)	
3.0	Scanning System	Progressive	
4.0	Electronic Shutter Speed	Auto/Manual, 1/3(4)-1/100000s	
5.0	Minimum Illumination	Colour: 0.005 Lux @ (F1.2, AGC ON), 0 Lux with IR Colour: 0.0068 Lux @ (F1.4, AGC ON), 0 Lux with IR	
6.0	S/N Ratio	More than 50dB	
7.0	IR Distance	Distance up to 60m (197ft)	
8.0	IR On /Off Control	Auto/ Manual	
	Lens		
9.0	Focal Length	2.7mm~13.5mm	
10.0	Max. Aperture	F1.4	
11.0	Angle of View	H:106°~29°, V:57°~17°	
12.0	Focus Control	4x	
13.0	Close Focus Distance	Fixed	
	Intelligence		
14.0	IVS	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)	
15.0	Event Trigger	Line crossing detection, up to 1-line configurable Intrusion detection, up to 1 region configurable Unattended baggage detection, up to 1 region configurable Object removal detection, up to 1 region configurable Face detection: detects faces	

		Scene change detection Audio exception detection	
	Video		
16.0	Compression	H.265+/H.265/H.264+/H.264	
17.0	Streaming Capability	3 Streams	
18.0	Resolution	1080P(1920x1080)/1.3M(1280x960)/720P(1280x720)/D1(704x576/704x480)/VGA (640x480)/CIF(352x288/352x240)	
19.0	Frame Rate	Main Stream: 1080P(1~50/60fps)	
		Sub Stream: D1(1~50/60fps)	
		Third Stream: 1080P(1~25/30fps)	
20.0	Bit Rate Control	CBR/VBR	
21.0	Bit Rate	H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps	
22.0	Day/Night	Auto(ICR) / Color / B/W	
23.0	BLC Mode	BLC / HLC / WDR(120dB)	
24.0	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
25.0	Gain Control	Auto/Manual	
26.0	Noise Reduction	3D DNR	
27.0	Region of Interest	Off / On (4 Zone, Rectangle)	
28.0	Motion Detection	Auto	
29.0	Digital Zoom	16x	
30.0	Smart IR	Y	
31.0	Flip	0°/90°/180°/270°	
32.0	Mirror	Off / On	
33.0	Privacy Masking	1 input / 1 Output	
	Audio		
34.0	Compression	N/A	
	Network		
35.0	Ethernet	RJ-45 (10/100Base-T)	
36.0	Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP;FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; Qi's;UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP;IGMP; SNMP	

37.0	Interoperability	ONVIF	
38.0	Streaming Method	Unicast / Multicast	
39.0	Max. User Access	Upto 5 Users	
40.0	Edge Storage	NAS Local PC for instant recording Micro SD card 128GB	
41.0	Web Viewer	IE, Chrome, Firefox, Safari	
42.0	Smart Phone	IOS, Android	
	Certifications		
43.0	Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
	Interface		
44.0	Video Interface	1 input / 1 Output	
45.0	Audio Interface	N/A	
46.0	RS485	1 input / 1 Output	
47.0	Alarm	N/A	
	Electrical		
48.0	Power Supply	DC12V, Poe (802.3af)(Class 0)	
49.0	Power Consumption	<12.9W	
	Environmental		
50.0	Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH	
51.0	Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH	
52.0	Ingress Protection	IP 67	
53.0	Vandal Resistance	IK10	

B. Technical Specifications for 2 MP IR Network Dome Camera

Sl. No.	Parameter	Owner's Required Specification	Bidder's Confirmation
	Camera		
1.0	Image Sensor	1/2.8" 2Megapixel progressive CMOS	
2.0	Effective Pixels	1920(H) x1080(V)	

3.0	Scanning System	Progressive	
4.0	Electronic Shutter Speed	Auto/Manual, 1/3(4) ~1/100000s	
5.0	Minimum Illumination	0.009Lux/F1.4(Color, 1/3s, 30IRE) 0.05Lux/F1.4(Color, 1/30s, 30IRE) 0Lux/F1.4(IR on)	
6.0	S/N Ratio	More than 50dB	
7.0	IR Distance	Distance up to 40m	
8.0	IR On/Off Control	Auto/ Manual	
	Lens		
9.0	Lens Type	Fixed	
10.0	Mount Type	Board-in	
11.0	Focal Length	2.8 mm or better	
12.0	Max. Aperture	F1.6/F1.6	
13.0	Angle of View	H:104°/92°, V:55°/50°	
14.0	Focus Control	Fixed	
15.0	Close Focus Distance	0.6m(0.9m)	
	Intelligence		
16.0	Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly	
17.0	IVS	Tripwire, Intrusion	
	Video		
18.0	Compression	H.265+/H.265/H.264+/H.264	
19.0	Streaming Capability	3 Streams	
20.0	Smart Codec	Supports H.265+/H.264+	
21.0	Resolution	1080P(1920x1080)/720P(1280x720)/D1(704x576/704x480)/CIF(352x288/352x240)	
22.0	Frame Rate	1080P (1 ~ 25/30fps) D1 (1 ~ 25/30fps)	
23.0	Bit Rate Control	CBR/VBR	
24.0	Bit Rate	H265:12K ~ 6400Kbps H264:24K ~ 10240Kbps	
25.0	Day/Night	Auto(ICR) / Color / B/W	

26.0	BLC Mode	BLC / HLC / WDR(120dB)	
27.0	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
28.0	Gain Control	Auto/Manual	
29.0	Noise Reduction	3D DNR	
30.0	Motion Detection	Off / On (4 Zone, Rectangle)	
31.0	Region of Interest	Off / On (4 Zone)	
32.0	Electronic Image Stabilization (EIS)	N/A	
33.0	Smart IR	Support	
34.0	Digital Zoom	16x	
35.0	Flip	0°/90°/180°/270°	
36.0	Mirror	Off / On	
37.0	Privacy Masking	Off / On (4 Area, Rectangle)	
	Audio		
38.0	Compression	N/A	
	Network		
39.0	Ethernet	RJ-45 (10/100Base-T)	
40.0	Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP;	
41.0	Interoperability	ONVIF	
42.0	Streaming Method	Unicast / Multicast	
43.0	Max. User Access	10 Users/20 Users	
44.0	Edge Storage	NAS (Network Attached Storage) Local PC for instant recording	
45.0	Web Viewer	IE, Chrome, Firefox, Safari	
46.0	Smart Phone	IOS, Android	
	Certifications		
47.0	Certifications	CE (EN 60950:2000)	
		UL: UL60950-1	
		FCC: FCC Part 15 Subpart B	
	Interface		

48.0	Video Interface	N/A	
49.0	Audio Interface	N/A	
50.0	RS485	N/A	
51.0	Alarm	N/A	
	Electrical		
52.0	Power Supply	DC12V PoE (IEEE802.3af) (Class 0)	
53.0	Power Consumption	<4.6W	
	Environmental		
54.0	Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH	
55.0	Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH	
56.0	Ingress Protection	IP67	
57.0	Vandal Resistance	N/A	

C. Technical Specifications for 3MP WDR Ultra-Smart Network Box Camera for Freezer Chambers

Sl. No.	Parameter	Owner's Required Specification	Bidder's Confirmation
	Camera		
1.0	Image Sensor	1/2.8" 3Megapixel CMOS	
2.0	Effective Pixels	1920(H)x1080(V)	
3.0	Scanning System	Progressive	
4.0	Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s	
5.0	Min. Illumination	0.005Lux/F1.2(Color, AGC On)	
6.0	S/N Ratio	More than 50dB	
	Camera Features		
7.0	Max. IR LEDs Length	N/A	
8.0	Day/Night	Auto (ICR)/Color/B/W	
9.0	Backlight Compensation	BLC / HLC / WDR 120dB	
10.0	White Balance	Auto/Manual	

11.0	Gain Control	Auto/Manual	
12.0	Noise Reduction	Ultra 3D	
13.0	Privacy Masking	Up to 4 areas	
14.0	Smart focus	Auto Iris Lens with Auto Focus Function	
	Video		
15.0	Compression	H.265/H.264/MJPEG	
16.0	Resolution	25fps (1920 × 1080, 1280 × 960, 1280 × 720)	
17.0	Frame Rate	25fps (640 × 480, 640 × 360, 320 × 240))	
18.0	Bit Rate	H.264: 40K ~ 10Mbps	
19.0	ROI	Up to 4 areas	
	Audio		
20.0	Compression	G.711a / G.711u	
21.0	Interface	1/1 channel In/Out(Built in Mic)	
	Smart Function		
22.0	Smart detection	Tripwire	
		Intrusion	
	Network		
23.0	Ethernet	RJ-45 (10/100Base-T)	
24.0	Wi-Fi	N/A	
25.0	Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour	
26.0	Compatibility	ONVIF	
27.0	Max. User Access	05 users	
28.0	Smart Phone	iPhone, iPad, Android, Windows Phone	
	Auxiliary Interface		
29.0	Memory Slot	Micro SD, Max 128GB	
30.0	Alarm	1/1 channel In/Out	
	General		
31.0	Power Supply	DC12V/AC24V, PoE (802.3af)	

32.0	Power Consumption	Max 10W (ICR&ABF)	
33.0	Working Environment	-30°C~+60°C, Less than 95% RH	
34.0	Ingress Protection	N/A	
35.0	Dimensions	71.4mm×65.5mm×135.4mm	
36.0	Weight	0.58Kg	

D. Technical Specifications for 64 Channels NVR

Sl. No.	Parameter	Owner's Required Specification	Bidder's Confirmation
	System		
1.0	Main Processor	Quad-core embedded processor	
2.0	Operating System	Embedded LINUX	
	Display		
3.0	Interface	2 HDMI (1 HDMI up to 3840×2160, Different Source), 1 VGA	
4.0	Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768	
5.0	Multi-screen Display	1st screen: 16CH: 1/4/8/9/16 32CH: 1/4/8/9/16/25/36 64CH: 1/4/8/9/16/25/36 2nd screen: 1/4/8/9/16	
6.0	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
	Video Detection and Alarm		
7.0	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
8.0	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering	
9.0	Alarm input	16 Channel, Low Level Effective, Green Terminal Interface	
10.0	Relay Output	6 Relay Output, NO/NC Programmable, Green Terminal Interface	
11.0	Tracking Trigger Event	N/A	
	Playback and Backup		
12.0	Sync Playback	1/4/9/16	

13.0	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
14.0	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
15.0	Backup Mode	USB Device/Network/Internal SATA burner/eSATA Device	
	Storage		
16.0	Internal HDD	8 SATA III Ports, up to 10TB capacity for each HDD	
17.0	HDD Mode	Single, Raid 0/1/5/6/10 (Enterprise-level HDDs are recommended)	
18.0	eSATA	1 eSATA port	
19.0	SAS	N/A	
	Auxiliary Interface		
20.0	Front Cover	N/A	
21.0	USB	3 ports (2 Rear USB3.0,2 Front USB2.0)	
22.0	RS232	1 Port, for PC Communication and Keyboard	
23.0	RS485	1 Port, for PTZ Control	
	Third-party Support		
24.0	Third-party Support	Onvif Support	
	Audio and Video		
25.0	IP Camera Input	16/32/64 Channel	
26.0	Two-way Talk	1 Channel Input, 1 Channel Output, RCA	
	Recording		
27.0	Compression	H.265/H.264/MJPEG/MPEG4	
28.0	Resolution	12Mp/8Mp/6Mp/5Mp/4Mp/3Mp/1080P/720P/ D1&etc.	
29.0	Record Rate	320Mbps	
30.0	Bit Rate	16kbps~20Mbps for per channel	
31.0	Record Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop	
32.0	Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec	
	Network		

33.0	Interface	2 RJ-45 ports (10/100/1000Mbps)	
34.0	Ethernet Port	2 Ethernet Ports Joint Working or 2 Independent 1000Mbps Ethernet Ports	
35.0	PoE	N/A	
36.0	Network Function	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search, P2P	
37.0	Optical Fiber Interface	N/A	
38.0	Max. User Access	128 users	
39.0	Smart Phone	iPhone, iPad, Android	
40.0	Interoperability	ONVIF 2.4	
	Electrical		
41.0	Power Supply	Single, AC 100~240V, 50/60 Hz	
42.0	Power Consumption	<16.7W (without HDD)	
	Environmental		
43.0	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa	
44.0	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH	

E. Technical Specification for Extreme Cold Housing with Bracket for Freezer Chamber Camera

Sl. No.	Parameter	Owner's Required Specification	Bidder's Confirmation
1.0	Features	With heater, fan, wiper	
		Built-in automatic temperature control system to ensure stable running	
2.0	Ingress Protection	IP67	
3.0	Operating Temperature & Humidity	-40°C ~ +60°C Heater on: 5°C±5°C, fan operating for constant temperature;	
4.0	Wiper	Required	
5.0	Power Supply	AC24V 5A	

F. Technical Specification for 3 MP Lens for Cold Storage Camera

Sl. No.	Parameter	Owner's Required Specification		Bidder's Confirmation
1.0	Image Format	1/2.7"		
2.0	Focal Length	5~50mm		
3.0	Aperture	F1.6		
4.0	Field Angle	Horizontal View	50°2 ~5.8°C	
		Heater	ON: 5± 5 °C/OFF: 15± 5 °C	
5.0	M.O.D.	0.1 m		
6.0	IR Correction	Yes		
7.0	Lens Control	Focus	Manual	
		Zoom	Manual	
		Iris	DC-Iris	
8.0	Mount	CS		

G. Technical Specifications for 16 Port POE Network Switch

Sl. No.	Parameter	Owner's Required Specification	Bidder's Confirmation
1.0	Interfaces	16 Auto-sensing Gigabit ports, and 1 × Gigabit SFP fiber optical port.	
2.0	Poe Ports	IEEE 802.3at/af standard. IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z standard. 6 KV surge protection for PoE ports. Max port Power 30 W	
3.0	Switching Capacity	36 Gbps	
4.0	POE Budget	230 W	
5.0	Power Consumption in idle	20 W	

H. Technical Specifications for 8 Port POE Network Switch

Sl. No.	Parameter	Owner's Required Specification	Bidder's Confirmation
1.0	Interfaces	08 Auto-sensing Gigabit ports1 × Gigabit RJ45 port, and 1 × Gigabit SFP fiber	

		optical port.	
2.0	Poe Ports	IEEE 802.3at/af standard. IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, and IEEE 802.3z standard.	
3.0	Switching Capacity	20 Gbps	
4.0	POE Budget	110W	
5.0	Power Consumption in Idle	10W	

LIST OF APPROVED MAKES

All material specified in this tender document must confirm to the brand name and be of the first quality. Samples of all materials to be used must be submitted and got approved from the Engineer-in-Charge before procurement and use.

SL NO.	MATERIAL	BRAND NAME
1	2MP Bullet cameras	Pelco, Hikvision, Bosch, Tyco, Axis
2	2MP Dome Camera	Pelco, Hikvision, Bosch, Tyco, Axis
3	3MP WDR Ultra-Smart Network Box Camera for cold storage	Pelco, Hikvision, Bosch, Tyco, Axis
4	64 Channels NVR	Pelco, Hikvision, Bosch, Tyco, Axis
7	Extreme Cold Housing with Bracket	Pelco, Hikvision Honeywell, Bosch, Tyco
5	3 MP Lens for Cold Storage Camera	Pelco, Hikvision Honeywell, Bosch, Tyco
6	16 Port POE Network Switch	Cisco, D-Link, Hikvision, Netgear, Juniper
7	08 Port POE Network Switch	D-Link, Hikvision, Cisco, HP, Netgear, Juniper

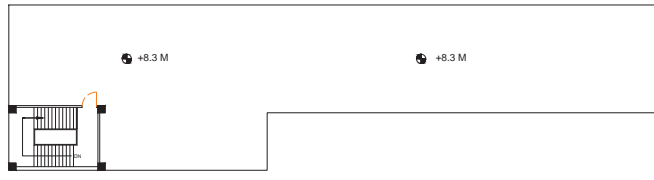
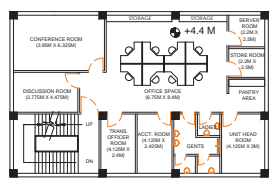
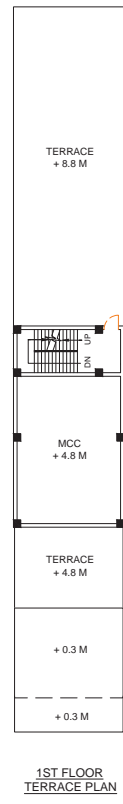
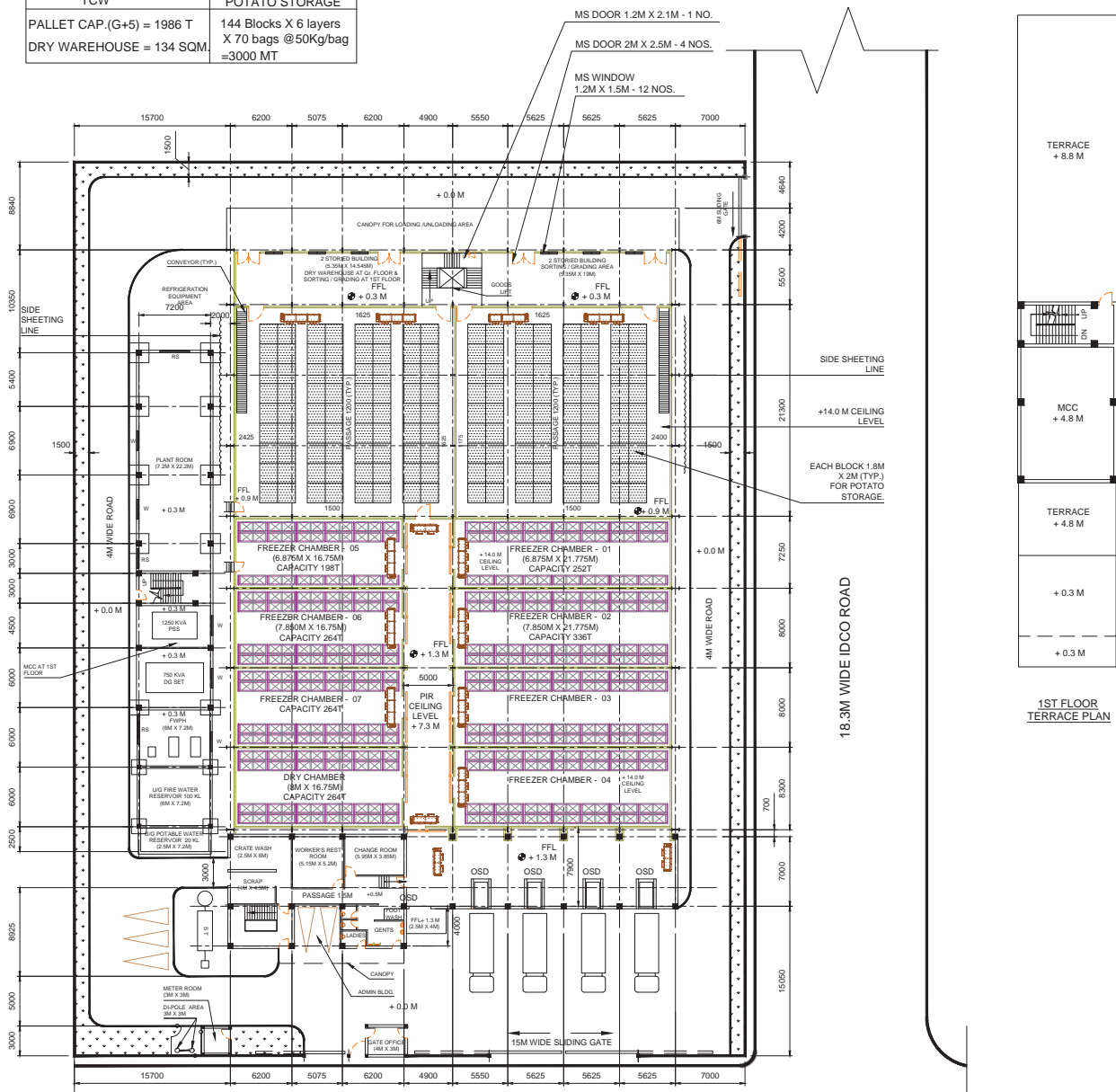
For make and rating of any other major items not mentioned above, vendor to take prior approval from Engineer-in-Charge before procurement of the same.

LIST OF CAMERA LOCATION (TENTATIVE)

Name of location	2MP IR Bullet	Dome	2MP Box Camera with Housing, Heater and Blower (Cold Rooms)	Total Camera
Front of docking and admin	2			2
TCW docking Area (inside)		4		4
TCW Ante Room (inside)		1		1
TCW Frozen Chambers (inside)			8	8
Potato Cold Chambers (3nos per level for 2 chambers)	18			18
Potato Sorting area – Gr Floor		2		2
Potato Sorting area –1 st Floor		2		2
Loading/ unloading of potato chambers	2			2
LPR & HPR area (outside)	1			1
Compressor room side road	1			1
Other side Road	1			1
Refrigeration Machine Room	1			1
PLC room		1		1
MCC Room-1st floor		1		1
Above ante room at +12M level	1			1
Total	27	11	8	46

CAPACITY CALCULATION

TCW	POTATO STORAGE
PALLET CAP.(G+5) = 1986 T	144 Blocks X 6 layers
DRY WAREHOUSE = 134 SQM	X 70 bags @50Kg/bag
	=3000 MT



1ST FLOOR LAYOUT PLAN (ADMIN BLDG.)

TERRACE PLAN

NOTE : ± 0.0 M LEVEL REPRESENT RL 99.7 M

REV-NO	DATE	REVISION	BY	CHKD.	APPD.
REV-04	26.07.19	STRUCTURAL COLUMN POSITION REVISED ANTEROOM WIDENED	KD	GCS	GCS
REV-03	16.07.19	DRY CHAMBER LOCATION REVISED & ANTE ROOM WIDTH MODIFIED AS COMMENTED BY SBU-LI	KD	GCS	GCS
REV-02	12.07.19	GENERALLY REVISED AS PER COMMENT BY SBU-LI	KD	GCS	GCS
REV-01	08.07.19	SHIFTING OF ANTE ROOM TOWARDS SIDE AS PER ADVICE BY SBU-LI	KD	GCS	GCS
NO.	DATE	REVISION	BY	CHKD.	APPD.



Balmer Lawrie & Co. Ltd.
ENGINEERING & PROJECTS

SCALE :			PROJECT : TCW, BHUBANESWAR		
DRAWN	KD	26.06.19	OWNER :	BALMER LAWRIE & CO. LTD.; SBU-LOGISTICS	
CHECKED	GCS	26.06.19	TITLE :	LAYOUT PLAN OF TCW BHUBANESWAR	
APPD	GCS	26.06.19			



Balmer Lawrie & Co Ltd (बामर लॉरी एंड कंपनी लिमिटेड)
(A Government of India Enterprise) (भारत सरकार का एक उद्यम)
Engineering & Projects (इंजीनियरिंग और परियोजनाएं)
21, Netaji Subhas Road (21, नेताजी सुभाष रोड)
Kolkata - 700 001 (कोलकाता - 700 001)

Installation of CCTV & Allied work

(सीसीटीवी स्थापना और संबद्ध कार्य)

Temperature Controlled Warehouse

(तापमान नियंत्रित गोदाम)

At (पर)

Industrial Estate, Chhatabar, Dist: Khurda, Odisha

(इंडस्ट्रियल एस्टेट, छतबार, डिस्ट्रिक्ट - खुर्दा ओडिशा)

Tender No. EP / TCW / BHU / CCTV / 20

Tender Date: 03.03.2021 (निविदा तारीख: 03.03.2021)

PRICED PART (PART-II) (मूल्यंकित भाग) (भाग - 2)

NOTES:

- 1.0 Details of the items under this Schedule shall be read in conjunction with the corresponding Specifications, Drawings and other Tender Documents.
- 2.0 The work shall be carried out as per approved drawings, Specifications and the description of the items in this Schedule and/or Engineer's instructions. Drawings enclosed with these documents are only for providing some preliminary of the work involved.
- 3.0 Items of work provided in this Schedule but not covered in the Specifications shall be executed strictly as per instructions of the Engineer-In-Charge.
- 4.0 The Quantities of the various items mentioned in the Schedule of Items are approximate and may vary or may be deleted altogether. The Contractor, in his own interest, should get an indication of the probable extent of the work to be executed under any particular item in this Schedule before undertaking any preliminary and enabling work or purchasing bought out components related to the work.
- 5.0 Engineer's decision shall be final and binding on the Contractor regarding clarification of items in this Schedule with respect to the other sections of the Contract.
- 6.0 For extra items, rates shall be derived from similar item rates included in the schedule of work. Where there is no such similar item available in the schedule, rate shall be analyzed as follows:

Rate for extra item = Cost of material including transportation for delivery upto site (a) + cost of labour inclusive of all necessary tools, tackles, equipment, machinery and consumable (b) required to carry out the work + 15% of (a+b) towards profit and overhead + taxes, duties etc. as applicable. "
- 7.0 Quoted Rate shall include cost of design, material procurement, fabrication, assembly, Painting, Supply (including Packing & Forwarding, Transportation upto project site, covering the materials under transit insurance), unloading at site with hiring of cranes/forklifts and manpower and safe storage at site, site shifting as required, site assembly, erection, alignment, testing, commissioning and handing over of the system. Necessary equipment, cranes, forklifts, tools & tackles, manpower and consumables required for erection and commissioning shall be included.
- 8.0 It is mandatory to quote for all the items of Schedule of Work/ Price Schedule. If any bidder does not quote for any item, their bid will be rejected. Bidders shall not change the unit or quantity of any item failing which may lead to cancellation of price bid.

Schedule of Work

Installation of CCTV & Allied work

Tender No. EP / TCW / BHU / CCTV / 20

Sl. No.	Description of Item	Unit	Qty	Unit Rate (Rs)	Amount (Rs)
	Supply (including delivery, unloading , stacking and storage at site) and installation (including erection/Mounting on channels,conduits,clamps, saddles, brackets, camera support or any accessories required for installation, testing and commissioning,configuration of entire system) of following floor / wall/ceiling mounted following items as per Drawing/Technical Specification attached.				
1	Outdoor IR Network 2MP Bullet Camera, 1920(H)X1080(V), IP IR 60 mtrs,F 1.4, with Motion Detection, Event Trigger, 16X Digital zoom, IP67, IK-10 (Ref. Tech. Spec.)	Nos	27		
2	Indoor IR Network 2MP Dome Camera 1920(H)X1080(V), IP IR 30 mtrs,upto F1.6, with Motion Detection, Event Trigger, 16X Digital Zoom, IP67(Ref. Tech. Spec.)	Nos.	11		
3	Cold Storage Network BOX 3 MP Camera, 1920(H)X1080(V), Smart Detection,Smart Focus,-30°C~+60°C (Ref. Tech. Spec.)	Nos	8		
4	Extreme Cold Housing with Bracket with Heater, Fan, Wiper, Built-in automatic temp. control for item no.3 (Ref. Tech. Spec.)	Nos	8		
5	3 MP Lens, F1.6 for Cold Storage Camera for item no. 3 (Ref. Tech. Spec.)	Nos	8		
6	64 Channel NVR with 8 sata slot with 10 TB support H.265/H.264/MJP EG/MPEG4codec decoding Max 320Mbps incoming bandwidth Up to 12Mp resolution preview & playback2HDMI/VGA simultaneous video output 3D intelligent positioning with PTZ camera Support RAID 0/1/5/6/10 Support N+M fail over. Operating conditions -10°C ~ +55°C (Ref. Tech. Spec.)	Nos	1		

Not to Quote Here

7	Surveillance Type hard disk 06TB	Nos	6		
8	16 port 10/100/1000 16 POE network switch (approx.) 1 × Gigabit SFP fiber optical port,Switching Capacity 36Gbps (Ref. Tech Spec.)	No	3		
9	08 port 10/100/1000 POEnetwork (approx.) 1 × Gigabit SFP fiber optical port,Switching Capacity 20Gbps (Ref. Tech Spec.)	No	3		
10	Cat 6 cable of Reputed make viz. D-Link, M-Core, Finolex, Havells	mtr	4200		
11	1.5 Sqmm 02 core insulated power supply cable	Mtr	1000		
12	42 inch full HD LED TV of reputed make viz Sony, Samsung, LG	Nos	1		
13	HDMI cable of reputed make	Nos	1		
14	Camera support for bullet and dome type camera item no. 1 and 2.	Lot	1		
15	Junction box IP 65	Nos	6		
16	06 U rack (approx.)	Nos	7		
17	Spike guard termination box , Switch Socket and other fixing accessories etc.	LS	1		
	TOTAL (Basic)				
	Add for GST		18%		
	TOTAL with GST				

Not to Quote Here