



BrahMos

An India-Russia Joint Venture

BrahMos Aerospace Private Limited

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Tel: 91-40-2408 7247, 7043 Fax: 91-40-24087045

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

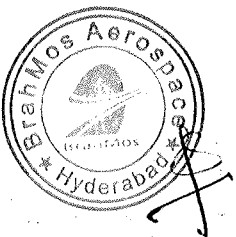
REQUEST FOR PROPOSAL (RFP) FOR SUBMISSION OF TECHNO-COMMERCIAL & PRICE BID FOR NON-COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (NC-AMC) FOR ELECTRICAL ASSETS, DG SETS, PUMP HOUSE OPERATIONS & MAINTENANCE INCLUDING MANPOWER DEPLOYMENT SERVICES AT BAPL, HYDERABAD


Dear Sir/ Madam,

1. BrahMos Aerospace Private Limited, hereinafter referred to as **Buyer**, intends for provisioning of **NON-COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (NC-AMC) FOR ELECTRICAL ASSETS, DG SETS, PUMP HOUSE OPERATIONS & MAINTENANCE INCLUDING MANPOWER DEPLOYMENT SERVICES AT BAPL, HYDERABAD** and seeking participation in the procurement process from prospective Bidders subject to requirements of succeeding paragraphs.
2. This RFP is divided into 7 Parts as follows:

| | | |
|----------|---|--|
| PART I | : | General Information & Instructions for the Bidders |
| PART II | : | Scope of Work |
| PART III | : | Evaluation Criteria of Bids |
| PART IV | : | Special Terms & Conditions of RFP |
| PART V | : | Standard Terms & Conditions of RFP |
| PART VI | : | Format for Price Bids |
| PART VII | : | Compliance Statement |
3. This RFP is neither an agreement and nor an offer by Buyer to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in submitting their proposals pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by Buyer in relation to the Project. This RFP document and any assumptions, assessments and statements made herein do not purport to contain all the information that each Bidder may require. The Bidder shall bear all its costs associated with or relating to the preparation and submission of proposal pursuant to this RFP. Wherever necessary, Buyer reserves the right to amend or supplement the information, assessment or assumptions contained in this RFP. Buyer reserves the right to withdraw the RFP or foreclose the procurement case at any stage. The issuance of this RFP does not imply that Buyer is bound to shortlist a Bidder for the Project. Buyer also reserves the right to disqualify any Bidder should it be so necessary at any stage on grounds of National Security.
4. The receipt of the RFP may please be acknowledged.
Thanking you.

FOR BrahMos Aerospace Private Limited




S Srinivasa Rao
General Manager (CMM)
BrahMos Aerospace Pvt.Ltd.
Near DRDL Rear Gate
Kanchanbagh, Hyderabad-500058.

Head Office: 16, Carriappa Marg, Kirby Place, Delhi Cantt – 110 010, India. Ph.: 011 33 123 000;
Fax: 011 2568 4827. Website: www.brahmos.com

CIN: U74899DL1995PTC074334

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

PART-I: GENERAL INFORMATION AND INSTRUCTIONS FOR THE BIDDERS

5. The salient aspects and timelines of the acquisition are tabulated below. In case of any variation in the details furnished below or in any Annexures(s) with that mentioned in the RFP, information furnished in the main body of the RFP at referred Paragraph is to be followed.

(a) The address and contact numbers for sending Bids is given below:

| | |
|-------------------------------------|---|
| Bids to be addressed to: | S Srinivasa Rao General Manager (CMM) |
| Postal address for sending the Bids | BrahMos Aerospace BrahMos Complex Near DRDL Complex Rear Gate Kanchanbagh PO Hyderabad – 500058 Kind Attn.: Sridhar Reddy Manager (CMM) |
| Contact Nos. & E-mail | Tel.No: 040-24087247 Email: purchasehyd@brahmos.com sridhar@brahmos.com |

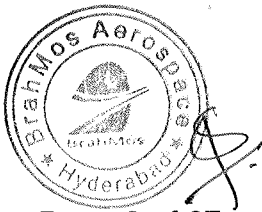
(b) **LAST DATE AND TIME FOR DEPOSITING THE BIDS:** The sealed Bids under **Two-Bid system (separate Techno-Commercial Bid & Price Bid)** should reach at the above given address through post/in person should be dropped in tender box. Tender box is placed in front of Reception area at BrahMos Security gate, latest by **dt: 08 June 2026**. The responsibility to ensure this lies with the Bidder. **Early submission of the Bids is acceptable to the Buyer. E-mail quotes shall not be entertained and rejected.**

(c) **FORWARDING OF BIDS:** Bids shall be forwarded by the Bidder under their original memo/letter pad inter alia furnishing details like GST number, Bank address with EFT Account, if applicable, etc., and complete postal & e-mail address of their office. Two Separate Sealed Envelopes and then be put in a single outer envelope(sealed) with the '**Bidder Details, RFP No., Last Submission Date**' pasted on top.

(d) **PRE-BID CLARIFICATION:**

(i) Prior to preparation of the Techno-Commercial Bid, clarifications, if any, regarding the technical terms & conditions be obtained from the **Mr. Dilip S, DGM (Utility, Safety & Security), Contact No. 040-24087090 /7018, email: dilipshanthappa@brahmos.com** within **06** working days from the date of RFP

(ii) Prior to preparation of the bid, clarifications regarding the commercial terms be obtained from GM (CMM), Hyderabad, **purchasehyd@brahmos.com , sridhar@brahmos.com** represented by **Mr K Sridhar Reddy, Manager (CMM), Hyderabad, 040-24087247** within **06** working days from the date of RFP.



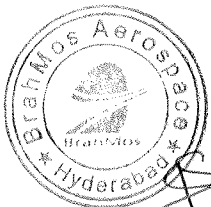
RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- (iii) Un-willingness of the Bidder to participate in Bid may be communicated to **Mr K Sridhar Reddy, Manager (CMM), Hyderabad, 040-24087247 within 06** working days from the date of RFP.
- (e) **CLARIFICATION REGARDING CONTENTS OF THE BIDS:** During evaluation and comparison of Bids, the Buyer may, at its discretion, ask the Bidder for clarification of his Bids. The request for clarification will be given in writing and no change in prices or substance of the Bids will be sought, offered, or permitted. No post-Bid clarification on the initiative of the Bidder will be entertained.
- (f) **CONDITIONS UNDER WHICH THIS RFP IS ISSUED:** This RFP is being issued with no financial commitment. The Buyer reserves the right to withdraw the RFP and change or vary any part thereof or foreclose the procurement case at any stage. The Buyer also reserves the right to disqualify the Bidder, should it be so necessary at any stage.
- (g) **VALIDITY OF BIDS:** The Bids should remain valid till **90** Days from the last date of submission of the Bids.

PART-II: SCOPE OF WORK

6. This section will include the following:

- 6.1 **General Scope of Work:** Scope of work includes provisioning of Non-Comprehensive Annual Maintenance Contract (NC-AMC) for Electrical Services (33 kV/ 11kV/ 440V) and Pump House operations including Manpower deployment Services as required for all the operation & maintenance services. **(Services and supply of spares rate contract as per attached annexures.**
- 6.2 The work shall be carried out in accordance with standard engineering practices/ codes, specifications/ drawings, and instructions of the Engineer-in-charge/ authorized representatives of BAPL, Hyderabad.
- 6.3 Detailed Scope of Work/Technical Requirements/Operations & Maintenance Services/ Specifications is enclosed as **Annexure – 1.**
- 6.4 **Validity of Contract:** This contract shall be valid for period of **Two years (24 Months)**. The period is tentative and is liable for increase/ decrease by BAPL as per requirement and performance of the Contractor. The contract may be extended for a further period of one year on the same terms & conditions subject to satisfactory performance of contractor and on mutual agreement basis.
- 6.5 **Delivery Terms:** Free Door Delivery of spare parts at BAPL, Hyderabad
- 6.6 **Site Visit:** Before quoting, the service provider may visit the site for getting firsthand information on the site conditions, the locations, and other aspects. The bidders are advised to visit and examine the site of works and their surrounding and obtain for himself and on his own responsibility all information that may be necessary for preparation of the bid and entering contract. The costs of visiting the site shall be at bidders own expensive. No extra claim on account of non-familiarity of site conditions shall be entertained during execution of work. **Pre-bid meeting will be conducted on 26th May 2026. Attending pre-bid meeting is mandatory. Bids received from the vendors who have not attended the pre-bid meeting are liable to be rejected.**



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

PART-III: EVALUATION CRITERIA OF BIDS

7. The Bidder is required to submit detailed Techno-Commercial Bid containing all Terms & Conditions as enumerated at **Part II, Part III, Part IV, Part V, Part VI** and **Part VII** of this RFP and give confirmation of their acceptance of all Terms & Conditions which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e., Seller in the Contract) as selected by the Buyer. The deviations, if any, may be clearly indicated in the Bid along with the Compliance Statement in the format enclosed at **Part-VII**. Failure to do so may result in rejection of Bid submitted by the Bidder.

Only those Bids will be evaluated, which are found to be fulfilling all the eligibility and qualifying requirements of the RFOOP, both technically and commercially. The bidder, whose price is arrived as lowest as per Evaluation criteria, will be declared as L-1 bidder by Buyer.

8. **EVALUATION OF TECHNO-COMMERCIAL BID:** The Techno-Commercial Bid forwarded by the Bidders will be evaluated by a Techno-Commercial Evaluation Committee (TCEC) to confirm that the items being offered meet the requirement. The TCEC will examine the extent of variations/differences, if any, in the technical characteristics of the items offered by Bidder.

9. **EVALUATION OF PRICE BID:**

- (a) The Price Bids of only those Bidders will be evaluated, whose technical bids have been cleared by the TCEC. committee. The unopened Price Bids will be evaluated based on complete scope and not individual line-item wise basis.
- (b) Quoted Price will be evaluated to determine the L-1 vendor based on the following conditions:

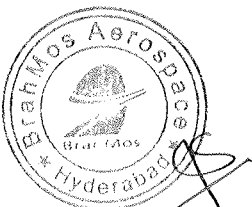
1) Condition A:

The evaluation will be based on the aggregate total cost, which includes Manpower deployment (**Annexure – A**), Paid services based on the site/equipment condition (**Annexure – B**), List of Repair cost Services (**Annexure – D**), List of Compulsory Services rate contract (**Annexure – E**).

2) Condition B:

The total cost for the general Electrical spares supply rate contract (**Annexure – C**) will be evaluated entirely separately to determine its L-1 Vendor. All other combined services (**Annexure – A, B, D, E**) will be evaluated collectively to arrive at a separate L-1 vendor for the services portion.

Note: To facilitate L-1 evaluation, Bidders must submit only the final, consolidated total prices for the **Annexures (A, B, D, E)** pricing components in Table 1 and Annexure – **C** in Table 2 respectively as placed in **Annexure – F**.

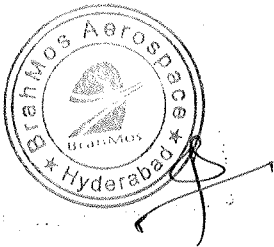


RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- (c) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.
- (d) If there is a discrepancy between words and figures, the amount mentioned in words shall prevail.
- (e) Discounted Cash Flow technique may be used, if required, to arrive at L1 bidder.

10. PROCEDURE FOR COST COMPARISON: The basis for comparison of cost in different situations would be as follows:

- (a) Price to be quoted in Indian Rupees only
- (b) The financial bids of the qualified bidders will be compared based on price quoted in the price bid format of the RFP/Bid document.
- (c) If the competition is only among Indian bidders, the financial comparison should be considered based on FOR destination prices excluding statutory levies, taxes, and duties payable on final product.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

PART-IV: SPECIAL TERMS & CONDITIONS OF RFP

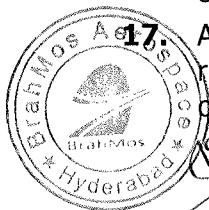
The Bidder is required to give confirmation of their acceptance of Special Terms and Conditions of the RFP mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder as selected by the Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.

- 11. NON-COMPREHENSIVE ANNUAL MAINTENANCE (NC-AMC):** The bidder must be a registered firm/company.
- 12. Criteria:** The bidder must be an individual (Sole Proprietorship, Partnership / Company Firm, LLP), engaged in providing of maintenance services for **Electrical Assets, DG Sets, Pump House Operations & Maintenance Including Manpower Deployment Services**. The bidder must have all requisite licenses/certification from authorities and should have qualified and competent manpower in provision of maintenance services.
- 13. ELIGIBILITY AND QUALIFYING REQUIREMENTS:** Bidder shall meet the following qualification criteria and bidder shall submit all the relevant documents supporting the qualification criteria. Bids not meeting the criteria will not be considered for evaluation:
- 14.** Tenderer shall have a minimum of 03 years of experience in the field of maintenance of External & Internal Electrification, DG Sets, Pump House Installations & Equipment for Defense PSUs/ PSUs/ Reputed private organizations/ Defense units/ MNCs etc is preferred.
- 15.** Bidder should have executed similar work for any one of the following in the last three years from latest date of bid submission:
 - a. Bidder must have A-Class Electrical Contractor License issued from Telangana Electricity Board is mandatory. (Voltage Authorization: 33 KV or more holder), documents to be provided.
 - b. Definition of similar work(s): AMC contracts related to maintenance of External & Internal Electrification, DG Sets, Pump House, Installations & Equipment.
 - c. Average Annual financial turnover during the last 3 financial years ending 31 March 2025 should be at least 1,50,000,00/-

Note: The Bidder must submit documentary proof in support of each of the above conditions along with the techno commercial bid Part-I. Offer by the bidders who fail to submit the supporting documents or fail to qualify as per qualifying criteria will not be considered. Work executed certificate from its client/contractor to be submitted as proof in support of para 14 & 15 as above.

- 16. Purchase Scope:** Major replacement parts will be provided by the buyer or paid for on actuals if supplied by the vendor after approval. All inventories handing over report shall be enclosed with the final bill on completion of duration of the contract duly stating the remarks on status/condition of equipment/plant. The final bill of the contract shall not be entertained/paid in case of non-compliance of the same.

17. Any damage/loss caused due to mis-handling or misuse of any equipment shall be got repaired/replaced by the contractor at his own cost. All liabilities arising out of accident or death while on duty shall be borne by the contractor.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- 18.** In case of any equipment or property of the BAPL is damaged by the service provider or his employees /agents, the same shall be rectified "free of any charge by the service provider within the period specified by the Engineer-in-charge. If the repair is not carried out within the specified period, the service provider shall pay Immediately the amount specified by the BAPL for the damage otherwise the amount will be recovered from the payments due to the service provider.
- 19. Penalty:** Failure to attend a breakdown call within 24 hours from the intimated time may lead to a penalty of Rs.500/- per day. If the system is not restored within a reasonable time, the work may be done by other agencies at the risk and cost of the contractor. BAPL, Hyderabad may also issue notices for unsatisfactory / poor services, as and when required. However, the bidder/contractor will have no option to withdraw from the contract on his own during the Initial contract period. The assets shall be handed over at the end of the notice period to the BAPL engineer-in-charge.
- 20. Personnel:** The persons employed shall possess requisite professional qualifications, experience, and competency in the specified field / area of work. The minimum qualification and experience shall be as given in scope of work. The contractor shall employ Indian nationals above age of 18 years and below age of 58 years. Contractor to ensure that the employees deployed are physically and mentally fit and do not have any criminal record.
- i. The minimum of manpower for which payments reimbursed for the subject work is Sixteen persons including supervisors.
 - ii. The contractor must ensure payment of wages to the manpower engaged by him **as per the Central Minimum Wages for Area Class 'A'** & its relevant amendments as applicable.
 - iii. Proper attendance register shall be maintained by the contractor. The monthly attendance statement should be approved by BAPL Admin / User dept should be attached with monthly bills.
 - iv. All mandatory payment levies Including EPF, ESI, Bonus, etc., as applicable shall be deemed to be included In the Contract amount. Apart from the above Income Tax and Professional Tax as applicable shall also be paid by the contractor and this amount also deemed to be included in the contractor amount.
 - v. The contractor shall pay all statutory/mandatory payments as applicable to the employees in their respective bank account. The names of employees paid with above statutory payments shall be the same as reflected in the attendance register.
 - vi. The contractor shall provide documentary evidence for the same along with all bills after the First bill or at the mutually agreed periodicity failing which no bills will be accepted for payment.
 - vii. In case the firm does not fulfils/defaults the statutory payments/conditions mentioned above, then the contract is liable for termination with immediate effect and same will be operated at the risk and cost of the firm by BrahMos Aerospace, Hyderabad. Further, they will not be issued any tenders in future and the firm is liable for removal from enlistment without any notice. During the currency of work, if the work is found to be unsatisfactory, not as per agreed terms and conditions. the work order will be cancelled by BrahMos



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

Aerospace, Hyderabad, by giving one-month notice without assigning any reason thereof at any time.

- viii. BAPL, Hyderabad may also issue notices for unsatisfactory / poor services, as and when required. However, the bidder/contractor will have no option to withdraw from the contract on his own during the Initial contract period. The assets shall be handed over all the end of the notice period to the BAPL Engineer-in-charge.

21. Safety Compliance: All staff must wear PPE and follow safety protocols, especially when working on overhead electrical components or in operational areas. The safety and security of all the assets / equipment thus handed over will be the responsibility of the maintaining agency throughout the contract period. The inventory of the same will be made out and kept in record duly signed by the maintaining agency and the authorized representative of Plant Head, BAPL, Hyderabad. Any damage/loss caused due to mis-handling or misuse of any equipment shall be got repaired/replaced by the contractor at his own cost. On completion of contract period the complete equipment as per record shall be handed over to the BrahMos Aerospace, Hyderabad in fully working condition.

22. Material Quality: All replacement parts must be of original equipment manufacturer (OEM) or approved equal quality.

23. CONTRACTOR'S OBLIGATIONS:

- i. The persons employed shall possess requisite professional qualifications, experience, and competency in the specified field / area of work. The minimum qualification and experience shall be as given in scope of work. The contractor shall employ Indian nationals above age of 18 years and below age of 58 years. Contractor to ensure that the employees deployed are physically and mentally fit and do not have any criminal record.
- ii. The Bio-data of all persons employed shall be submitted to this office on assumption of contract along with the complete details of their qualifications, ESI, EPF, Bank Account and other relevant key information. Aadhar Card/ Enrolment No. of individuals shall also be submitted along with other details, if the same is available
- iii. The personnel employed shall be competent of operating all the required installations and equipment and must be familiar with all installations and equipment installed at site. And familiar with sequence of operation. Authorized and competent engineer(s)/person(s) from OEM shall be engaged wherever required or as directed by Engineer-in-Charge.
- iv. The persons employed for operation shall follow the discipline and security regulations of the BAPL office. All persons employed by the contractor need to submit latest Police Verification. They shall be issued with necessary Identity Cards by the Contractor. They shall also wear approved industrial uniform while on duty and the costs involved to this effect shall be deemed to be included in the quoted rates by the contractor.
- v. The Contractor to provide a distinct uniform different from BAPL employees. The uniform should have logo of Contractor's firm / Company. The uniform should be kept in neat, tidy, and wearable condition. Contractor shall provide required PPEs such as Safety helmets, Safety belts, Apron & Safety shoes to his employees at

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- his own cost. The Contractor shall be responsible for enforcing all safety regulations as applicable. All log books, Service Reports, Inspection Reports, Ledgers and Records should be checked and signed by the nominated BAPL, Hyderabad official periodically or as and when required basis.
- vi. Supervisors shall have basic mobile phone (without camera & without internet) at the contractors cost who shall coordinate with the concerned authorities as & when needed.
 - vii. Supervisors appointed by the contractor shall liaise with the nominated Representative(s) of User(s), concerned facility to carry out maintenance work, periodical services and shall obtain endorsement for the required services/replacements.
 - viii. All inventories handing over report shall be enclosed with the final bill on completion of duration of the contract duly stating the remarks on status/condition of equipment/plant.
 - ix. The final bill of the contract shall not be entertained/paid in case of non-compliance of the same. Any damage/loss caused due to mis-handling or misuse of any equipment shall be got repaired/replaced by the contractor at his own cost. All liabilities arising out of accident or death while on duty shall be borne by the contractor.
 - x. BAPL, Hyderabad shall provide space for storage of machines, material and chemicals related to execution of contract (availability of space) for which no rentals for space will be recoverable. However, no extra payment shall be admissible for carriage/shifting etc.
 - xi. The service provider shall insure his staff against all risk, accidents for the duration of the contract period cost of which is deemed to be included in the contract value. The service provider shall produce proof or Workmen Compensation Policy and proof of payment before starting the work at BAPL Hyderabad. The department will not be responsible for any type of injury including death caused to the service provider's personnel during the work.
 - xii. The service provider shall fulfil all the obligations required under workmen compensation act amended from time to time.
 - xiii. In case of any equipment or property of the BAPL is damaged by the service provider or his employees/agents, the same shall be rectified "free of any charge by the service provider within the period specified by the Engineer-in-charge. If the repair is not carried out within the specified period, the service provider shall pay immediately the amount specified by the BAPL for the damage otherwise the amount will be recovered from the payments due to the service provider.
 - xiv. The contractor should not remove or engage any person without the knowledge and concurrence of the Engineer-in-charge of BAPL Hyderabad.

24. TOWARDS STATUTORY LIABILITY

- a) All statutory requirements under;
 - i. Minimum Wages Act, 1948, Payment of Wages Act, 1936,
 - ii. Workmen Compensation Act, 1923, EPF and MP Act, 1952,
 - iii. Payment of Gratuity Act, 1972, ESI Act, 1948,



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- iv. The Contract labour (R&A) Act, 1970, Payment of Bonus Act, 1965,
 - v. Income Tax Act, Service Tax Act, and all other applicable Acts & amendments thereof, shall be complied with, by the Contractor.
 - vi. GOI, Ministry of Labour & Employment Office of the Chief Labour Commissioner (c), New Delhi vide F.No/1/6(3)/2025-LS-II, dt: 30/03/2026.
- b) Contractor shall comply with all statutory requirements, rules, regulations, notifications in relation to employment of his employees issued from time to time by the concerned authorities. Contractor shall be responsible for making payment of wages before expiry of 7 days from the last day of wage period.
 - c) Contractor shall ensure payment of statutorily prescribed minimum wages as applicable from time to time and maintain proper records of their timely disbursement These records need to be preserved for a period of at least 3 years and should be made available even after the contract is over for any verification of the statutory authorities / BAPL authorities.
 - d) Contractor to provide PF pass book to his employees and ensure payment of PF, EDU, pension dues under EPF and MP Act, 1952 to the RPFC.
 - e) Contractor shall ensure payment of ESI contribution under ESI Act, 1948 and provide ESI membership no. / Card of each employee. In case any exemption is claimed, copy of the exemption order shall be provided.
 - f) Contractor shall produce proof of deductions as well as remittances of PF, EDLI, Pension, ESI Contribution, administrative charges etc., wherever applicable and shall maintain proper records. Contractor to issue wage slips to his employees. The contractor will be required to comply PF/ESI and other statutory contribution payments of wages of his employees.
 - g) Contractor shall furnish proper returns to the concerned statutory authorities and provide a copy of the same to BAPL.
 - h) Contractor shall be solely responsible for non-payment/ delayed payment of wages/DA, contributions under EPF and MP Act, ESI Act etc.
 - i) In case the Contractor fails to make payment of wages to his employees or remittances of contributions to the concerned authorities, the security deposit/ other dues / running bills under the contract can be utilized by BAPL to discharge the liability of the Contractor.
 - j) Contractor shall indemnify BAPL against all claims and losses under various Labour Laws, Statutes or any Civil or Criminal Laws in connection with the employees deployed by him.
 - k) The liability for any compensation on account of injury sustained by an employee of the contractor, will be exclusively that of the Contractor only.
 - l) Contractor to obtain insurance cover for his employees / equipment / tools & tackles etc., and take Third party risk insurance coverage at his own cost. BAPL shall not be responsible for any loss, damage, pilferage of his property and/ or his employees.
 - m) Contractor should have independent code numbers/ exemptions under EPF and MP Act, 1952 and ESI Act, 1948 and shall cover his employees under the said codes.

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- n) Payment of Bonus under the Payment of Bonus Act, payment of gratuity under the Gratuity Act. and retrenchment compensation under the relevant Act will be the sole responsibility of the Contractor.
- o) Over and above the daily wage rate, payment shall be made for leave with wages.
- p) Contractor shall observe provisions of the Factories Act/Rules in respect of working hours, holidays, rest intervals, leave and overtime to his employees.
- q) In case the contractor employs women as employees. he will discharge his obligation under law, in respect of such women workers as per rules.
- r) Contractor to obtain license under CL(R&A) Act. 1970 (as applicable).
- s) The service provider shall indemnify the purchaser/and/or any officer, employee or any assignee thereof harmless from any loss, damage, liability or expense, on account of damage to the property or environment and injuries including death, to any persons not limited to, employees or agents of the department, employees of the service provider or its sub-service provider, and all other persons performing any part of the work here under any occurrence caused by any act of commission / omission of the service provider or his subservice provider or any of them. The service provider shall at his expense defend any suits or proceedings brought against the department on account thereof and shall satisfy all judgments and pay all expenses which may be incurred by or rendered against them, or any of them in connection therewith. The service provider shall fulfill all the obligations required under workmen compensation act as amended from time to time. The service provider shall ensure minimum wages as per relevant act.

25. PAYMENT TERMS:

- i. Payment will be made on monthly basis as per contracted rates. All the payments will be made only on satisfactory completion of maintenance of work/ services and submission of pre-receipted GST invoice. Bills of the previous month shall be submitted before 7th day, of the succeeding month, along with the proof of payment of salaries credited to the personal Bank Account of the workers employed by the contractor and the proof of the payment of PF, ESIC (both Employees and Employer's share) dues of the previous month. (For example, bill for the month of May, 2026 would be submitted by the contractor for the payment before 7th June, 2026 along with the proof of the payment of Salaries for the Month of May 2026 and EPF, ESIC & other statutory dues for the month of April, 2026). Attendance details duly certified by BAPL Admin dept. or their nominated officials shall also be attached with the bills.
- ii. Income Tax, Surcharge on IT, Education Cess, and any other taxes as applicable and as amended from time to time, will be deducted from your bill.
- iii. Both Employees and employer's share of EPF and ESI in respect of the workers employed by the contractor for the maintenance services will be deposited by the contractor to the concerned statutory authorities as per the applicable rate and periodicity from time to time. Non-payment of EPF, ESI and Bonus will amount to statutory violation besides violation of laid down/agreed conditions as per work order/agreement. BrahMos Aerospace, Hyderabad reserves the right to cancel the work order without any notice in such an event and blacklist the firm for default.

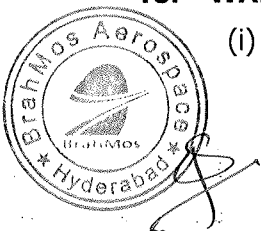


RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- iv. Payment of bonus as applicable, to the workers employed by the contractor will be reimbursed to the contractor at half yearly intervals in the months of October and March on prorate basis, after payment is made by the contractor by credit in the respective personal Bank Account of their employees. Necessary pre-receipted Bills along with proof of payments, as per the statutory provision will be submitted by the contractor for claiming payment.
- 26. TAXES AND DUTIES:** Only GST will be paid extra by the Buyer. The Bidders are required to indicate the unit & total costs of the items/services with and without GST, GST % with HSN/SAC separately as per the format enclosed. GST claimed by the Supplier shall be released by the Buyer only after it appears in the Buyer's GST Input Credit Register of GSTIN Online Portal.
- 27. EFFECTIVE DATE OF THE CONTRACT:** The Date of this PO will be the Effective Date of Contract. The performance of the Supply Order shall commence from the Effective Date
- 28. DOCUMENTS TO BE FURNISHED FOR CLAIMING PAYMENT:** The payment of bills will be made on submission of the following documents by the Seller to the Buyer:
- (a) Ink-signed copy of Invoice.
 - (b) Warranty Certificate if applicable
 - (c) Job Completion Certificate
 - (d) Details for electronic payment viz. Bank name, Branch name and address, Account Number, IFS Code, MICR Number (if these details are not already incorporated in the Contract).
 - (e) Copy of the Contract and amendments thereon, if any.
 - (f) Any other document/ certificate that may be provided for in the Contract.
- 29. BANK GUARANTEE FOR PERFORMANCE:** The service provider shall execute a BG from an Indian nationalized bank OR (Axis /HDFC/ICICI/Kotak Bank) for 10% of the PO Value valid up to the entire deliver period plus claim period plus 03 (three) months in our format within 25 days form award of contract. Failing which the equivalent amount will be deducted from the running account bill of the vendor.
- i. The period of work order may be extended further II thought fit by BAPL. In case the validity of PBG required to be extended for such reason, the contractor shall make suitable arrangement lo make such extension. The Performance security shall not carry any interest and shall be returned by the service receiver on completion of all the contractual obligations.
 - ii. In case of breach of any conditions under the Work Order, the PBG shall be liable to be encashed. In addition, the Work Order(s) is also liable to be terminated and any amount due to the Service Provider against any other Work Order from the BAPL is also liable to be appropriated.
- 30. OPTION CLAUSE:** The Contract will have an Option Clause, wherein the Buyer can order for additional quantity up to 100%, of the original contracted quantity in accordance with the same terms and conditions of the contract. This will be applicable within the currency of the contract or as decided during commercial negotiations. It will be entirely the discretion of the buyer to exercise this option or not.
- 31. REPEAT ORDER CLAUSE:** Not Applicable

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- 32. PURCHASE PREFERENCE CLAUSE:** Purchase preference will be granted as per Public Procurement (Preference to Make in India), Order – 2017 as amended, issued by DPIIT/Ministry of Commerce and Industry.
- 33. PERMISSIBLE TIME FRAME FOR SUBMISSION OF INVOICE:** To claim payment (part or full), the Supplier shall submit the bill(s) along with the relevant documents within 90 days from the completion of the activity/ supply.
- 34. INVOICE PREPARATION:** All original documents for payments including invoices are to be raised on and submitted to the Buyer's location at **Hyderabad**. GSTIN No. for the unit is **36AABCR8269E1Z6** and the same shall be mentioned in all invoices as applicable.
- 35. LIQUIDATED DAMAGES:** The Buyer may deduct from the Seller, as agreed, liquidated damages at the rate of 0.5% per week/part thereof, of value basic cost (excluding taxes and duties on final product) of the delayed stores/services subject to maximum of 10% of the total order value (excluding taxes and duties on final product).
- 36. PACKING AND MARKING INSTRUCTIONS:** Seller shall provide packing and preservation of the equipment and goods/items contracted to ensure their safety against damage during transportation and storage. Each package shall be marked with applicable warning inscriptions.
- 37. QUALITY & INSPECTION CLAUSE:**
- a) **YEAR OF PRODUCTION:** The Spare parts /items should be of the latest manufacture and conform to the current production standards.
 - b) **QUALITY:** The quality of the items /Services shall correspond to the technical conditions and standards enumerated in the RFP.
 - c) **INSPECTION AND ACCEPTANCE:** The status /progress of services will be monitored by buyer's team of BAPL, Hyderabad. In case of any short comings, defect, non-conformance with the technical specifications or deficiencies in the items supplied / maintenance of services, a defect report shall be raised on the spot and handed over to the supplier for making good the deficiencies or replace the defective item(s)/ corrective-ness of services within a mutually agreed period without prejudice to the warranty period.
- 38. NOTICES/ CORRESPONDENCES:** Any notice/correspondence required or permitted by the Contract shall be written in English language and may be delivered personally or may be sent by FAX/email or registered pre-paid mail/ airmail, addressed to the last known address of the party to whom it is sent.
- 39. CURRENT MANUFACTURE:** The equipment supplied will be of latest manufacture and will confirm to current production standards including the specified material and its equivalent.
- 40. WARRANTY:**
- (i) The Seller warrants that the goods & services including workmanship delivered under the contract conform to technical specifications prescribed and will perform according to the said technical specifications.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

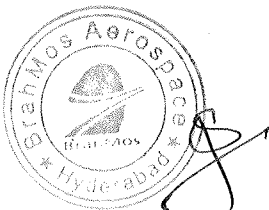
- (ii) The Seller warrants for a period of minimum 12 month from the date of acceptance of stores by Joint Receipt Inspection or date of installation and commissioning, whichever is later, that the goods/stores/workmanship supplied under the contract and each component used in the manufacture thereof will be free from all types of defects/failures.
- (iii) If within the period of warranty, the goods/stores/workmanship are reported by the Buyer to have failed to perform as per the specifications, the Seller will either replace, rectify, or redo the same free of charge on site where the items are being used, within a maximum period of 15 days of notification of such defect received by the Seller, provided that the goods/stores/workmanship are used and maintained by the Buyer as per instructions. Warranty of the equipment would be extended by such duration of downtime. Record of the down time would be maintained by the user in the logbook. Spares/ work required for warranty repairs will be provided free of cost by the Seller.
- (iii) The Seller also warrants that necessary service and repair back up during the warranty period of the equipment will be provided by the Seller and he will ensure that the downtime is within 10 % of the warranty period.
- (iv) The Seller shall associate technical personnel of the Maintenance agency and Quality Assurance Agency of the Buyer during warranty repair and will also provide the details of complete defects, reasons, and remedial actions for defects.
- (v) If a particular equipment/goods fails frequently and/or, the cumulative down time exceeds 10% of the warranty period, the complete equipment will be replaced free of cost by the Seller within a stipulated period of 30 days of receipt of the notification from the Buyer. Warranty of the replaced equipment would start from the date of acceptance after Joint Receipt Inspection by the Buyer/date of installation and commissioning.
- (vi) In case the complete delivery of Engineering Support Package is delayed beyond the period stipulated in this contract, the Seller undertakes that the warranty period for the goods/stores will be extended to that extent.

41. TRANSPORTATION & TRANSIT INSURANCE: In vendor's scope

42. AMENDMENTS: No provision of the Contract shall be changed or modified in any way (including this provision) either in whole or in part except when both the parties are in written agreement for amending the Contract.

43. RISK AND EXPENSE PURCHASE: In case Seller fails to honor the contractual obligations within the stipulated delivery period and as amended, Buyer may procure the said contracted goods/services through a fresh supply order/contract and the defaulting Seller must bear the excess cost incurred, if any.

44. INTELLECTUAL PROPERTY RIGHT (IPR): Not Applicable.

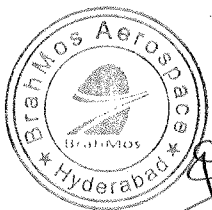


RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

PART-V: STANDARD TERMS & CONDITIONS OF RFP

The Bidder is required to give confirmation of their acceptance of the Standard Terms and Conditions of the RFP mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder as selected by the Buyer. Failure to do so may result in rejection of the Bid.

- 45. LAW:** The Contract shall be considered and made in accordance with the laws of the Republic of India and shall be governed by and interpreted in accordance with the laws of the Republic of India.
- 46. DISPUTES:** All disputes or differences arising out of or in connection with the present Contract including the ones connected with the validity of the present contract or any part thereof, shall be settled by bilateral discussions. Both, Buyer, and Seller, will make every effort to resolve the dispute if any, in a mutually acceptable manner.
- 47. ARBITRATION:** In the event of any controversy, disputes or differences arising out of or in the interpretation of any of the terms and conditions of this agreement or on breach by any of the parties shall bring the said reason to the notice of each other, and shall amicably try to settle any such issues within 30 days of such notice. In the event of the parties' failure to reach amicable settlement as mentioned herein, all unresolved controversies, disputes, or arbitration in accordance with Indian arbitration and conciliation Act, 1996 and the venue of arbitration shall be Hyderabad, India.
- 48. PENALTY FOR USE OF UNDUE INFLUENCE:** The Seller undertakes that he has not given, offered, or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage, or inducement to any person in service of the Buyer.
- 49. ACCESS TO BOOKS OF ACCOUNTS:** In case it is found to the satisfaction of the Buyer that the Bidder/ Seller has violated the provisions of use of undue influence and/ or employment of agent to obtain the Contract, the Bidder/ Seller, on a specific request of the Buyer, shall provide necessary information/ Inspection to the relevant financial documents/ information/ Books of Accounts.
- 50. WITHHOLDING OF PAYMENT:** In the event of the Seller's failure to submit the Bonds, Guarantees and Documents, supply the stores/goods and conduct trials, installation of equipment, training, etc. as specified in the Contract, the Buyer may, at his discretion, withhold any payment until the completion of the Contract.
- 51. PENALTY FOR NON-PERFORMANCE:**
 - (i) Any absentees/shortage in manpower or inferior Services will be liable for deduction in the payables due for the agency on pro-rata or as decided by this department
 - (ii) If during inspection. the worker is not found in uniform or is found working without safety PPEs, a penalty of Rs. 500/- will be charged per instance.
 - (iii) If the contractor fails to maintain/repair/replace the faulty item or fails to attend the scheduled periodic maintenance or any brake down maintenance under his scope of work (due to the fault of service provider) within the specified period in agreement, the penalty shall be imposed at the rate of Rs. 500/- per day of delay and part thereof subject to 5% of the total contract value for one year.



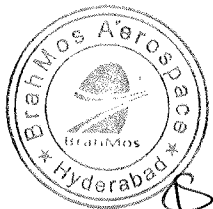
RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- 52. CONFIDENTIALITY OF INFORMATION:** No party shall disclose any information to any 'Third Party' concerning the matters under this RFP generally. Any information identified as 'Proprietary' in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractors, consultants, advisors, or the employees engaged by a party with equal force.
- 53. SECRECY:** Any Information of classified nature obtained, acquired during the manufacture, test and trails is not to be passed on to any Third party by you or your subcontractor(s). This clause shall survive on termination or completion of this order.
- 54. UNDERTAKING FROM THE BIDDERS:** Bidder/firm/company/vendor will submit an undertaking that in the past they have never been banned/debarred for doing business dealings with Ministry of Defence/Govt. of India/any other Govt. organization and that there is no enquiry going on by CBI/ED/any other Govt. agency against them.
- 55. FORCE MAJEURE CLAUSE:** Should any Force Majeure circumstances arise, each of the contracting party shall be excused for the non-fulfilment or for the delayed fulfilment of any of its contractual obligations, if the affected party within 30 (Thirty) days of its occurrence informs in a written form the other party. Force Majeure shall mean fires, floods, natural disasters, or other acts, that are unanticipated or unforeseeable, and not brought about at the instance of, the party claiming to be affected by such event, or which, if anticipated or foreseeable, could not be avoided or provided for, and which has caused the non-performance or delay in performance, such as war, turmoil, strikes, sabotage, explosions, quarantine restriction beyond the control of either party. A party claiming Force Majeure shall exercise reasonable diligence to seek to overcome the Force Majeure event and to mitigate the effects thereof on the performance of its obligations under this contract.
- 56. LIABILITY CLAUSE:**
- (a) Any damage caused to the property or suffered by the personnel of Buyer during the execution of Contract shall remain the liability of the Buyer. Such liability shall be fixed on Seller in case of grossly negligent act or omission on the part of Seller.
 - (b) This provision is limited to the relations between the Parties. It is without prejudice to the rights and actions to which the victims of damage, or any Social Security Organizations could prevail themselves legally.
 - (c) Either party would provide reasonable assistance to resolve the claim of other Party to mitigate loss or damage.
 - (d) Neither, the Seller shall be liable to the Buyer, nor shall the Buyer be liable to the Seller for any immaterial, punitive, indirect, special, incidental, or consequential loss or damage. This will hold good irrespective of whether such liability is based or claimed to be based on any breach of a Party's obligation under the Contract, or any negligent act or omission of a Party, its employees, servants, appointed representatives, sub-contractor or professional consultants, or such liability arises otherwise out of or in connection with the Contract.
 - (e) The Buyer shall not be liable for any compensation in any manner to the Seller for whatsoever reason.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- (f) The Seller shall be liable to the Buyer for any compensation in any manner for whatsoever reasons for a sum not exceeding value of the Contract.
- 57. FALL CLAUSE:** The prices charged for the stores supplied under the agreement by the Seller shall in no event exceed the lowest price at which the Seller sells the items of identical description to any other person/organization during the period till performance of all supply orders placed during the currency of the agreement is completed. If, at any time, during the period, the Seller reduces the sale price of such stores or sells stores to any other person/organization at a price lower than the price chargeable under the agreement, he shall forthwith notify such reduction or sale to the authority which has concluded the RC/PA; and the price payable under the agreement for the stores supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.
- 58. DENIAL CLAUSE:** Denial clause informs Seller that the Buyer reserves the right to admit additional payment due to upward revision of statutory levies beyond the original delivery schedule in case Seller fails to deliver the goods as per schedule. Variations in the rates of statutory levies within the original delivery schedule will be allowed if taxes are explicitly mentioned in the contract/supply order and delivery has not been made till the revision of the statutory levies. Buyer reserves the right not to reimburse the enhancement of cost due to increase in statutory levies beyond the original delivery period of the supply order/contract even if such extension is granted without imposition of LD.
- 59. TERMINATION OF CONTRACT:** The Buyer shall have the right to terminate the Contract in part or in full in any of the following cases:
- (a) The store/service is not received/rendered as per the contracted schedule(s) and the same has not been extended by the Buyer.
- OR
- The delivery of the store/service is delayed for causes not attributable to Force Majeure for more than 01 months after the scheduled date of delivery and the delivery period has not been extended by the Buyer.
- (b) The delivery of store/service is delayed due to causes of Force Majeure by more than 06 months provided Force Majeure clause is included in the contract and the delivery period has not been extended by the Buyer.
- (c) The Seller is declared bankrupt or becomes insolvent.
- (d) The Buyer has noticed that the Seller has violated the provisions of Para 47 (Use of Undue Influence) and/or Para 49 (Employment of Agent) above to obtain the Contract.
- (e) As per decision of the Arbitration Tribunal.
- 60. COMPETENCE OF PERSONNEL:** Bidder to ensure the following:
- (a) Necessary Competence of personnel, who involving in the execution of work
- (b) Their Contribution to product / service conformity & importance towards ethical behavior.
- (c) Competence to detect or prevent the counterfeit parts, monitoring, and reporting of the same during execution of contract.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

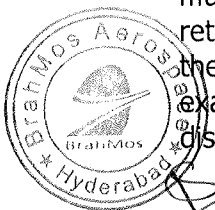
61. COUNTERFEIT PARTS:

- (a) Seller shall evolve necessary verification and test methodologies to detect the counterfeit Parts.
- (b) Seller to ensure to prevention of counterfeit parts / products including from their sub-vendors, if any.
- (c) Seller to ensure that only non-counterfeit parts / products shall be delivered to Buyer.
- (d) Further to prevent inadvertent use of counterfeit parts, Seller shall only procure directly from the OEM (Original Equipment Manufacturer) or their authorized distribution chain unless approved by Buyer in writing.
- (e) Seller also to ensure the necessary traceability of parts / components belonging to OEM and the same shall be provided to Buyer to eliminate the delivery of counterfeit parts.
- (f) Seller to obtain the approval of Buyer in writing to source the inputs from Non-Franchised Distributors and to ensure parts that were procured are legitimate, authentic, non-counterfeit parts, if applicable.
- (g) In case of detection of counterfeit parts / products upon inspection, same will not be accepted by Buyer and returned to Seller as they are and will be handled as per the policies of Buyer.

62. TRANSFER AND SUB-LETTING: The Seller has no right to give, bargain, sell, assign, or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the Contract or any part thereof without written consent of the Buyer.

63. USE OF PATENTS AND OTHER INDUSTRIAL PROPERTY RIGHTS: The prices stated in the Contract shall be deemed to include all amounts payable for the use of patents, copyrights, registered charges, trademarks, and payments for any other Industrial Property Rights. The Seller shall indemnify the Buyer against all claims from a third party at any time on account of the infringement of any or all the rights mentioned in the previous paragraphs, whether such claims arise in respect of manufacture or use. The Seller shall be responsible for the completion of the supplies including spares, tools, technical literature, and training aggregates irrespective of the fact of infringement of the supplies or any or all the rights mentioned above.

64. NON-DISCLOSURE: The Bidding documents, including this RFP and all attached documents provided by Buyer, are and shall remain or become the property of Buyer. These are transmitted to the Bidders solely for the purpose of preparation and the submission of a proposal in accordance herewith. Bidders are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their proposal. The provisions of this Para shall also apply mutatis mutandis to Bids and all other documents submitted by the Bidders, and Buyer will not return to the Bidders any proposal, document or any information provided along therewith (except unopened Commercial Bid as relevant). Information relating to the examination, clarification, evaluation, and recommendation for the Bidders shall not be disclosed to any person who is not officially concerned with the process, or concerning



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

the Bidding Process. Buyer will treat all information, submitted as part of the Bid, in confidence and will require all those who have access to such material to treat the same in confidence. Buyer may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or Buyer or as may be required by law or in connection with any legal process.

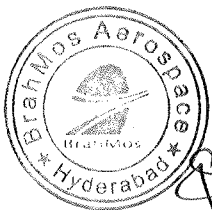
65. CONFIDENTIALITY OF INFORMATION: No party shall disclose any information to any 'Third Party' concerning the matters under this RFP generally. Any information identified as 'Proprietary' in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractors, consultants, advisors, or the employees engaged by a party with equal force.

66. FRANKING CLAUSE:

- (a) Franking Clause in the case of Acceptance of Goods " The fact that the goods have been inspected after the delivery period and passed by the Inspecting Officer will not have the effect of keeping the contract alive. The goods are being passed without prejudice to the rights of the Buyer under the terms and conditions of the contract".
- (b) Franking Clause in the case of Rejection of Goods "The fact that the goods have been inspected after the delivery period and rejected by the Inspecting Officer will not bind the Buyer in any manner. The goods are being rejected without prejudice to the rights of the Buyer under the terms and conditions of the contract."

67. CLAIMS:

- (a) The quantity claims for deficiency of quantity and/ or the quality claims for defects or deficiencies in quality noticed during the inspection shall be presented within 45 days of completion of inspection.
- (b) The Seller shall collect the defective or rejected goods from the location nominated by the Buyer and deliver the repaired or replaced goods at the same location, within mutually agreed period, under Seller's arrangement without any financial implication on the Buyer.
- (c) The description and quantity of the stores are to be furnished to the Seller along with concrete reasons for making the claims. Copies of all the justifying documents will be enclosed to the presented claim. The Seller will settle the claims within 45 days from the date of the receipt of the claim at the Seller's office, subject to acceptance of the claim by the Seller. In case no response is received during this period the claim will be deemed to have been accepted.
- (d) The Seller will collect the defective or rejected goods from the location nominated by the Buyer and deliver the repaired or replaced goods at the same location under Seller's arrangement.
- (e) Claims may also be settled by reduction of cost of goods under claim from bonds submitted by the seller or payment of claim amount by seller through demand draft, in favour of Principal Controller/Controller of Defence Accounts concerned.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

(f) The quality claims will be raised solely by the Buyer and without any certification/countersignature by the seller's representative stationed in India.

- 68. VALID POLICE CLEARANCE CERTIFICATE (PCC):** The Bidder to ensure that they have undertaken rigorous verification of the nationality and antecedents of all the employees / personnel engaged / deputed for undertaking the work at the Buyer's location through Police verification. A copy of the valid Police Clearance Certificate (PCC) of all the employees / personnel to be deputed at the Buyer's location shall be submitted to the Project Team / CMM Dept prior to commencement of the work. Employee / personnel without a valid PCC shall not be allowed inside the Buyer's premises and the Bidder shall be solely responsible for the delays on account of non-availability of the PCC."
- 69. GOVERNMENT REGULATIONS:** It may be confirmed that there are no Government restrictions or limitations in the country of the Bidder or countries from which subcomponents are being procured and/or for the export of any part of the deliverables being supplied.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE - A

MANPOWER DEPLOYMENT SERVICES

- a) The service provider shall mobilize the following qualified and experience maintenance personnel for the above said work. Service provider shall submit the documentary evidence for the qualification and experience of the persons engaged for work. Services to be provided round the clock as per shift details.
- b) Depending on the workload the service provide may have to increase the work force and work beyond office working hours or on holidays as per the instructions of the Officer/Engineer-in-charge from BAPL to complete maintenance activities on demand without any extra payment.
- c) The Contractor shall arrange his own conveyance / transport for his team and materials etc. Contractor shall provide at his own cost a vehicle for the transportation/movement of his staff in the premises of BAPL. It must be noted by the contractor that his staff shall travel about 5 to 6 km daily to reach various work spots inside the premises. BAPL will not provide any transport/vehicle to the personnel of the contractor nor will reimburse any FOL expenditure to the Contractor
- d) The Contractor shall make his own arrangements for lodging and boarding of his maintenance team during the period of contract. Contractor will not be permitted to construct any shed inside the BAPL premises.
- e) ITI qualified only comes under Skilled category, in case of non-ITI resource which is considered in Semi-Skilled category.

| Designation | Shift | Requirement | Minimum Qualifications |
|--------------------|---|--------------------|--|
| Site Engineer | General | 01 | Degree/Diploma with 3+years relevant experience with HT Supervisor License (Highly Skilled) |
| Supervisor | General | 01 | Diploma/ITI with 8+ years' relevant experience (Highly Skilled) |
| Electricians | 24/7 (Rotational shifts A/B/C/Holidays) | 10 | ITI Electrician with 3 + years relevant experience and Wireman License, Yard & Panel cleaning (Skilled) – Relievers 02 nos |
| Plumber | General | 01 | General Shift + Relievers – 01 Nos. |



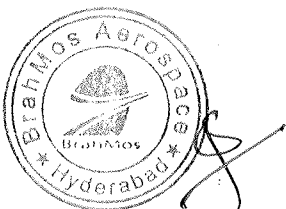
RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| Designation | Shift | Requirement | Minimum Qualifications |
|---------------------------|-------------------------|-------------|--|
| Pump Operator cum Plumber | A+B shifts (Rotational) | 03 | Experienced in Hydrant & Borewell Ops. Pipeline repairs etc (Skilled) – General shift + Relievers - 01nos |
| Carpenter | General | 01 | Carpentry Experience of 3+ years in Doors/Locks repairs etc (Semi-Skilled for non-ITI resource), in case of ITI Carpentry qualified comes under Skilled category |
| | Total | 16 | |

Shift Details. Manpower to be deputed in shift as given below,

| Shift Working | No. of Persons | | | | Remarks |
|---------------------------------|-----------------------|-------------|--------------------------------|-----------|--|
| | Engineer & Supervisor | Electrician | Plumber cum Pump room Operator | Carpenter | |
| 1st Shift (6 am to 2 pm) | - | 2 | 1 | - | Weekly off to be provided on rotation basis. |
| 2nd Shift (2 pm to 10 pm) | - | 2 | 1 | - | |
| 3rd Shift (10 pm to 6 am) | - | 2 | - | - | |
| General Shift (9 am to 6 pm) | 2 | 2 | 1 | 1 | |
| Relievers | - | 2 | - | - | |
| Total | 2 | 10 | 3 | 1 | 16 |

Note: Wages must comply with the Central Govt. Minimum Wages with relevant categories like Highly Skilled/Skilled/Semiskilled/Unskilled (effective as on P.O release date) for Area 'A', 'B', or 'C' as applicable, including VDA, EPF, ESIC/Medical, Accidental Group Insurance and Bonus.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

OPERATION & NON-COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT FOR EXTERNAL & INTERNAL ELECTRIFICATION, DG SETS, PUMP HOUSE AT BAPL HYDERABAD

| Sr. No | Description | Number of Minimum Man power | | Wages Per Day (Incl. VDA) Rs. | Number of Days per Month | Rate/ Per Month (Rs.) | Total Amount Per Month (Rs.) |
|--------|--|-----------------------------|-----|-------------------------------|--------------------------|-----------------------|------------------------------|
| | | Unit | Qty | | | | |
| 1 | Wages of Engineer (Highly Skilled) | Nos | 1 | 1094.00 | 26 | 28,444.00 | 28,444.00 |
| 2 | Wages of Supervisor (Highly Skilled) | Nos | 1 | 1094.00 | 26 | 28,444.00 | 28,444.00 |
| 3 | Wages of Technician (Skilled) | Nos | 10 | 1008.00 | 26 | 26,208.00 | 2,62,080.00 |
| 4 | Wages of Plumber cum Pumphoom operator (Skilled) | Nos | 3 | 1008.00 | 26 | 26,208.00 | 78,6244.00 |
| 5 | Wages of Carpenter (Semi-Skilled) | Nos | 1 | 918.00 | 26 | 23,868.00 | 23,868.00 |
| 6 | | Nos | 16 | TOTAL Wages Per Month (Rs.): | | | 4,21,460.00 |
| 7 | Bonus Per Month Rs. @ 8.33% subject to a max Rs. 7000/- per person | | | | | | 9,333.00 |
| 8 | Subtotal Per Month (Sr. No. 6 + Sr No. 7) Rs. | | | | | | 4,30,793.00 |
| 9 | EPF per month (@ 13% of Rs. 15000/- per person) (Persons as per Sr. No.6) Rs. | | | | | | 53,322.00 |
| 10 | Workmen compensation per month (ESI not applicable as basic exceeds Rs.21,000/-) | | | | | | 5,000.00 |
| 11 | Cost of Safety PPEs & Uniform & PPEs per Month (= Rs. 3750/- per person per year X 16) / 12) | | | | | | 5,000.00 |
| 12 | Gratuity per month (as per new labour code) | | | | | | 19,720.00 |
| 13 | Contractors profit in percentage % of Sr. No.8 only | | | | | | _____% |
| 14 | Total (Rs.) | | | | | | |
| A | Total Amount for One year (Rs.) (Sum of Serial No. 1 to 13 of above table) | | | | | | |
| B | Total Amount for Two years (Rs.) (i.e. (A) X 2) | | | | | | |

Note: Bidders are required to quote only at Sr No.13 above as %age of value at Sr.No.8 of this table. (Latest wages revision if any as applicable shall be quoted/revised in the above table format.)



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| Notes: | |
|---------------|--|
| A. | GST will be paid extra at actual. |
| B. | Items included in Sr. No. 11 (Per annum each person will get Uniform – 2 sets and PPEs: Safety Shoes – 01 Pair, Safety helmet, Gloves & Goggles– 01 No). |
| C. | Workmen compensation policy to be taken by the vendor at his own cost. |
| D. | Wages calculated based on the prevailing central wages notified by GoI. Reimbursement will be considered for any change in statutory wages by GoI during the contract period & its extended period (if any). |
| E. | The wages are calculated for 26 days per month. However, bills will be admitted as per the actual number of days worked in a month. Considered wages as per Ministry of Labour & Employment, Notification No. F.No.1/6(3)/2025-LS-II, dated 30/03/2026. Latest wages revision if any as applicable shall be quoted/revised in the above table format. |
| F. | Reimbursement for spares/ consumables /repairs will be dealt as per the RFP. |
| G. | Period of Contract: Two Years. |
| H. | Other T&C as per RFP. |
| I. | ITI qualified only comes under Skilled category, in case of non-ITI resource which is considered in Semi-Skilled category. |

Penalty Clause:

Penalties would be applicable for Non-conformity and Lapses by the contractor.

Following are the classifications of Lapses.

- Ontime response to the User/requests (Minor)
- Ontime PM completion with sign closure from User/In charge (Minor)
- Punctuality as per BAPL rules/policy
- 95% attendance is mandatory for each day (Minor)
- Proper response and good Behavior with BrahMos Staff and within the site deployed vendor staff (Minor)
- Whistleblowing on office matters (Major)
- Secrecy and Security (Major)

Penalty Amount for Minor – 0.5% of monthly billing

Penalty Amount for Major will be considered case to case basis based on the Criticality; amount shall not exceed 03% of Monthly bill



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE - B

Rates to be indicated for below **Paid Services**, based on the site/equipment condition, utilization shall be carried out and billing at actuals upon completion.

| SI No. | Service Description | Unit | Qty | Quoted Basic Rate (Rs) | Total Basic Amount (Rs) |
|--------|---|------|-----|------------------------|-------------------------|
| 1. | Spares for Transformers with RTCC panel servicing with Oil filtration | - | - | - | - |
| | 1.1) STEM replacement | No | 03 | | |
| | 1.2) Magnetic Oil Gauge (MOG) | No | 03 | | |
| | 1.3) Level Indicator glass | No | 01 | | |
| 2. | Fire Pump/Motor Service/repairs – 7.5HP | - | - | | |
| | 2.1) Bearing replacement – SET both Drive end and non-drive end | Set | 1 | | |
| | 2.2) Shaft repairs | Set | 1 | | |
| | 2.3) Glands & other miscellaneous | Set | 1 | | |
| | 2.4) Re-winding charges | No | 1 | | |
| 3. | Fire Pump/Motor Service/repairs – 15HP | - | - | | |
| | 3.1) Bearing replacement – SET both Drive end and non-drive end | Set | 1 | | |
| | 3.2) Shaft repairs | Set | 1 | | |
| | 3.3) Glands & other miscellaneous | Set | 1 | | |
| | 3.4) Re-winding charges | No | 1 | | |
| 4. | Fire Pump/Motor Service/repairs – 90HP | - | - | - | - |
| | 4.1) Bearing replacement – SET both Drive end and non-drive end | Set | 1 | | |
| | 4.2) Shaft repairs | Set | 1 | | |
| | 4.3) Glands & other miscellaneous | Set | 1 | | |
| | 4.4) Re-winding charges | No | 1 | | |

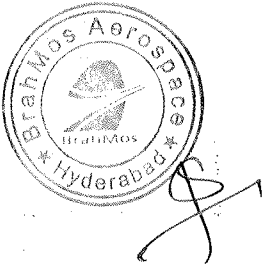
RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| SI No. | Service Description | Unit | Qty | Quoted Basic Rate (Rs) | Total Basic Amount (Rs) |
|----------------|--|------|-----|------------------------|-------------------------|
| 5. | Borewell Pump/Motor Service/repairs – 7.5 HP | - | - | - | |
| | 5.1) Bearing replacement | Set | 1 | | |
| | 5.2) other miscellaneous | Set | 1 | | |
| | 5.3) Re-winding charges | No | 1 | | |
| 6. | 'C' Check for 750 KVA DG set by OEM (Make: Cummins) including cost of engine oil, grease, gaskets, consumables, and replaceable items as recommended by BAPL/OEM | No | 2 | | |
| 7. | 'C' Check for 320 KVA DG set by OEM (Make: Greaves) including cost of engine oil, grease, gaskets, consumables, and replaceable items as recommended by BAPL/OEM | No | 1 | | |
| 8. | Battery replacement – 150AH, 12V DC on Buy back basis of old battery. Brands – Exide/Amaron | No | 1 | | |
| 9. | Battery replacement – 140AH, 12V DC on Buy back basis of old battery. Brands - Exide/Amaron | No | 1 | | |
| 10. | Battery replacement – 100AH, 12V DC on Buy back. Brands - Exide/Amaron basis of old battery | No | 1 | | |
| 11. | New Earth Pit – Chemical Type as per IS 3043 | No | 1 | | |
| 12. | New Earth Pit – GI Pipe Type as per IS 3043 | No | 1 | | |
| 13. | New Earth Pit – Copper Plate Earth Type as per IS 3043 | No | 1 | | |
| A. | Total Basic Amount for One year (Rs.) (Sum of Serial No. 1 to 13 of above table) | -- | -- | | |
| B. | Total Basic Amount for Two years (Rs.) (i.e. (A) X 2) | -- | -- | | |
| In words (Rs.) | | | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

Note:

- a) Price should be quoted for all the items listed above in the specified pricing format without any overwriting/erasing/cutting. Use of white fluid/correction fluid/correction tape is strictly prohibited.
- b) The rates should be inclusive of freight charges, packing charges etc. conditional bids shall be rejected. The rates for the quoted items should not be higher than the MRP.
- c) Cost Breakup of each deliverable/ services needs to be provided as annexure to the above table in Price Bid.
- d) All other Terms and Conditions/ Exclusions/ Deviations from RFP terms needs to be brought out clearly in the bid.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE - C

RATE CONTRACT – List of General Electrical Items

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|---|-------------------------------------|-----|-------|-----------|------------|------------------|
| 1 | 36W LED 2X2 FALL CELLING FITTING with Clips suitable type | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 2 | CLAMPS FOR 36W LED 2/2 FALL CELLING FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 3 | 36W LED 2/2 SURFACE FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 4 | 24W LED Square Surface fitting, 8inch | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 5 | 25W LED 1 /1 FALSE CELLING FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 6 | 25W LED SURFACE FITTING ROUND-STYLES | Crompton/Bajaj/Orient/ Havells/Usha | 1 | No | | | |
| 7 | 40W LED BATTEN | Crompton/Bajaj/Orient/ Havells/Usha | 1 | No | | | |
| 8 | 20W LED BATTEN | Crompton/Bajaj/Orient/ Havells/Usha | 1 | No | | | |
| 9 | 10W LED BATTEN | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 10 | 20W LED (Round)FALL CELLING FITTING "8INCH | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 11 | 15W LED 6" FALSE CELLING LIGHT(R) | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 12 | 200W FLP LED HI-BAY FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 13 | 150W FLP LED H-IBAY FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 14 | 150W NON FLP LED HI-BAY FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 15 | 200W NON FLP LED HI-BAY FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 16 | 25W LED STREET LIGHTING FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 17 | 50W LED STREET LIGHTING FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 18 | 75W LED STREET LIGHTING FITTING | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 19 | 45W LED DRIVE | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|--------------------------------------|-------------------------------------|-----|-------|-----------|------------|------------------|
| 20 | 36W LED DRIVE | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 21 | 1400 MM CELLING FAN | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 22 | 1200 MM CELLING FAN | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 23 | 400MM WALL MOUNTING FAN | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 24 | 450MM WALL MOUNTING FAN (H/DUTY) | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 25 | 400MM PEDASTAL FAN | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 26 | 18"EXHUST FAN H/D | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 27 | 12"EXHUST FAN-H/D | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 28 | 10"EXHUST FAN-L/D | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 29 | 6" EXHAUST FAN -L/D | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 30 | AIR CIRCULATOR FAN WALL MOUNTING FAN | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 31 | 10 MFD CAPACITOR | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 32 | 5 MFD CAPACITOR | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 33 | 4 MFD CAPACITOR | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 34 | 2.5 MFD CAPACITOR | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 36 | 3.5 MFD CAPACITOR | Crompton/Bajaj/Orient /Havells/Usha | 1 | No | | | |
| 37 | 250A,4 POLE MCCB, 36KA | Schnieder/ABB | 1 | No | | | |
| 38 | 125A,4 POLE MCCB | Schnieder/ABB | 1 | No | | | |
| 39 | 63A,10kA 4 POLE MCB | Schnieder/ABB | 1 | No | | | |
| 40 | 32A,10kA 4 POLE MCB | Schnieder/ABB | 1 | No | | | |
| 41 | 63A,10kA,3 POLE MCB | Schnieder/ABB | 1 | No | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|--|-----------------------------|-----|-------|-----------|------------|------------------|
| 42 | 32A,10kA, 3 POLE MCB | Schnieder/ABB | 1 | No | | | |
| 43 | 6A-32A,10kA, 2 POLE MCB | Schnieder/ABB | 1 | No | | | |
| 44 | 6A - 32A ,10kA,SP MCB | Schnieder/ABB | 1 | No | | | |
| 45 | DIGITAL AMMETER - 0-500A - L&K | Schnieder/ABB | 1 | No | | | |
| 46 | DIGITAL VOLTMETER - 440V - L&K | Schnieder/ABB | 1 | No | | | |
| 47 | Digital LED Basic Multifunction Meter Cl 1 with RS485 (WL4405110000) | Schnieder/ABB | 1 | No | | | |
| 48 | 63A,18kA, 4 POLE MCCB | Schnieder/ABB | 1 | Each | | | |
| 49 | 32A,18kA, 4 POLE MCCB | Schnieder/ABB | 1 | Each | | | |
| 50 | 4 POLE MCB METAL BOX | Schnieder/ABB | 1 | Each | | | |
| 51 | 2 POLE MCB METAL BOX | Schnieder/ABB | 1 | Each | | | |
| 52 | 25A AC BOX | Legrand/Havells/Anchor/Roma | 1 | Each | | | |
| 53 | 63A 5 PIN SOCKET (SET) | Legrand/Havells/Anchor/Roma | 1 | Each | | | |
| 54 | 32A, 5 PIN SOCKET (SET) | Legrand/Havells/Anchor/Roma | 1 | Each | | | |
| 55 | 10A Switch | Anchor Roma | 1 | No | | | |
| 56 | 10A Socket | Anchor Roma | 1 | No | | | |
| 57 | 16A Sockets | Anchor Roma | 1 | No | | | |
| 58 | 16A Switches | Anchor Roma | 1 | No | | | |
| 59 | 2M Fan Dimmer | Anchor Roma | 1 | No | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|---|----------------------|-----|-------|-----------|------------|------------------|
| 60 | 18M Plate | Anchor Roma | 1 | No | | | |
| 61 | 12M Plate | Anchor Roma | 1 | No | | | |
| 62 | 6M Plate | Anchor Roma | 1 | No | | | |
| 63 | 3M Plate | Anchor Roma | 1 | No | | | |
| 64 | 12M surface Box | Anchor Roma | 1 | No | | | |
| 65 | 8M surface Box | Anchor Roma | 1 | No | | | |
| 66 | 6M surface Box | Anchor Roma | 1 | No | | | |
| 67 | 3M surface Box | Anchor Roma | 1 | No | | | |
| 68 | 16A Plug top | Anchor Roma | 1 | No | | | |
| 69 | 1inch Casing Patti | Anchor Roma | 1 | No | | | |
| 70 | PVC Clips (1.5Sq.mm) | Anchor Roma | 1 | Pkt | | | |
| 71 | Insulation Tapes Box-small (Consists of 20nos tapes) | Anchor Roma | 1 | Pkt | | | |
| 72 | PVC Gatties | Anchor Roma | 1 | Pkt | | | |
| 73 | 4 POLE CONTACTORS- 63A | GE/Schnieder/ABB/L&T | 1 | No | | | |
| 74 | 250A Cylindrical HRC fuse | GE/Schnieder/ABB/L&T | 1 | Each | | | |
| 75 | 125A Cylindrical HRC fuse | GE/Schnieder/ABB/L&T | 1 | Each | | | |
| 76 | 63A Cylindrical HRC fuse | GE/Schnieder/ABB/L&T | 1 | Each | | | |
| 77 | 32A Cylindrical HRC fuse | GE/Schnieder/ABB/L&T | 1 | Each | | | |
| 78 | BENTONITE POWDER BAG (25KG) | -- | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|----------------------------------|-----------------------------|-----|-------|-----------|------------|------------------|
| 79 | ROCK SALT (50KG) | -- | 1 | Each | | | |
| 80 | CHARCOAL (50KG) | -- | 1 | Each | | | |
| 82 | Cable, 1.0sqmm, Copper, 1C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 83 | Cable, 1.5sqmm, Copper, 1C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 84 | Cable, 2.5sqmm, Copper, 1C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 85 | Cable, 4.0sqmm, Copper, 1C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 86 | Cable, 6.0sqmm, Copper, 1C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 87 | Cable, 10.0sqmm, Copper, 1C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 88 | Cable, 1.0sqmm, Copper, 3C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 89 | Cable, 1.5sqmm, Copper, 3C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 90 | Cable, 2.5sqmm, Copper, 3C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 91 | Cable, 4.0sqmm, Copper, 3C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 92 | Cable, 6.0sqmm, Copper, 3C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 93 | Cable, 10.0sqmm, Copper, 3.5C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 94 | Cable, 16.0sqmm, Copper, 3.5C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 95 | Cable, 10.0sqmm, Aluminium, 3.5C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 96 | Cable, 16.0sqmm, Aluminium, 3.5C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 97 | Cable, 25.0sqmm, Aluminium, 3.5C | KEI/Havells/Finolex/Polycab | 1 | Mtr | | | |
| 98 | Copper Lugs, Ring type, 06 sqmm | -- | 1 | Each | | | |
| 99 | Copper Lugs, Ring type, 10 sqmm | -- | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|---|---------------------|-----|-------|-----------|------------|------------------|
| 100 | Copper Lugs, Ring type, 16 sqmm | -- | 1 | Each | | | |
| 101 | Copper Lugs, Ring type, 25 sqmm | -- | 1 | Each | | | |
| 102 | Al Lugs, Ring type, 06 sqmm | -- | 1 | Each | | | |
| 103 | Al Lugs, Ring type, 10 sqmm | -- | 1 | Each | | | |
| 104 | Al Lugs, Ring type, 16 sqmm | -- | 1 | Each | | | |
| 105 | Al Lugs, Ring type, 25 sqmm | -- | 1 | Each | | | |
| 106 | Insulated Rubber Mats in front of all panels, Size – 3x6mtrs, 05mm thickness | ISI brand | 1 | Each | | | |
| 107 | 6Amps Single Pole MCB | Legrand / ABB / L&T | 1 | Each | | | |
| 108 | 10 Amps Single Pole MCB | Legrand / ABB / L&T | 1 | Each | | | |
| 109 | 16 Amps Single Pole MCB | Legrand / ABB / L&T | 1 | Each | | | |
| 110 | 20 Amps Single Pole MCB | Legrand / ABB / L&T | 1 | Each | | | |
| 111 | 25 Amps Single Pole MCB | Legrand / ABB / L&T | 1 | Each | | | |
| 112 | 32 Amps Single Pole MCB | Legrand / ABB / L&T | 1 | Each | | | |
| 113 | 250 Amps 4 Pole MCB | Legrand / ABB / L&T | 1 | Each | | | |
| 114 | 160 Amps 4 Pole MCB DPX | Legrand / ABB / L&T | 1 | Each | | | |
| 115 | Ceiling PVC Rose | Anchor | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|--|------------------------|-----|-------|-----------|------------|------------------|
| 116 | Ceiling Covers | Anchor | 1 | Each | | | |
| 117 | Button Holders | Anchor | 1 | Each | | | |
| 118 | Starter DOL 3 Phase - 16 Amps | L&T | 1 | Each | | | |
| 119 | Starter DOL 3 Phase - 32 Amps | L&T | 1 | Each | | | |
| 120 | 25 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 121 | 35 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 122 | 50 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 123 | 70 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 124 | 95 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 125 | 120 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 126 | 240 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 127 | 300 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 128 | 400 Sq. Mm Aluminium Armoured Cable (3.5 Core) | polycab / havels / KEI | 1 | Each | | | |
| 129 | 35 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |
| 130 | 50 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |
| 131 | 70 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|------------------------------------|-------------------------|-----|-------|-----------|------------|------------------|
| 132 | 95 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |
| 133 | 120 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |
| 134 | 240 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |
| 135 | 300 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |
| 136 | 400 Sq. mm Aluminium Ring Type Lug | - | 1 | Each | | | |
| 137 | 35 Sq. mm Cable Gland | - | 1 | Each | | | |
| 138 | 50 Sq. mm Cable Gland | - | 1 | Each | | | |
| 139 | 70 Sq. mm Cable Gland | - | 1 | Each | | | |
| 140 | 95 Sq. mm Cable Gland | - | 1 | Each | | | |
| 141 | 120 Sq. mm Cable Gland | - | 1 | Each | | | |
| 142 | 240 Sq. mm Cable Gland | - | 1 | Each | | | |
| 143 | 300 Sq. mm Cable Gland | - | 1 | Each | | | |
| 144 | 400 Sq. mm Cable Gland | - | 1 | Each | | | |
| 145 | 50 Sqmm flexible copper wire | polycab / havells / KEI | 1 | Each | | | |
| 146 | 50 Sq. mm copper lug | | 1 | Each | | | |
| 147 | 1/2 " PVC Casing Patti | Modi | 1 | Each | | | |
| 148 | 2" PVC Casing Patti | Modi | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|-----------------------------------|---------------------|-----|-------|-----------|------------|------------------|
| 149 | 1" PVC Casing Pipe | sudhakar | 1 | Each | | | |
| 150 | 2" PVC Caing Pipe | sudhakar | 1 | Each | | | |
| 151 | 3/4" PVC Casing Pipe | ashirwad | 1 | Each | | | |
| 152 | 1" PVC Flexible Pipe | ashirwad | 1 | Each | | | |
| 153 | 2" PVC Flexible Pipe | ashirwad | 1 | Each | | | |
| 154 | 1 Modular Fan Regulator | Anchor / Roma | 1 | Each | | | |
| 155 | 5 amps top | Anchor / Roma | 1 | Each | | | |
| 156 | Single Pole Modular MCB - 20 Amps | Anchor | 1 | Each | | | |
| 157 | 1" Screws Box | - | 1 | Each | | | |
| 158 | 1.5" Screws Box | - | 1 | Each | | | |
| 159 | 2" Screws Box | - | 1 | Each | | | |
| 160 | Switch Dummies | Anchor | 1 | Each | | | |
| 161 | DB Dummies | Anchor | 1 | Each | | | |
| 162 | 4 modular DB Box | L&T/Legrand | 1 | Each | | | |
| 163 | 8 modular DB Box | L&T/Legrand | 1 | Each | | | |
| 164 | 12 modular DB Box | Legrand / ABB / L&T | 1 | Each | | | |
| 165 | TPN 3 WAY DB Box | Legrand / ABB / L&T | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|-----------------------------------|---------------------|-----|-------|-----------|------------|------------------|
| 166 | 10 mm PVC Clips | Anchor | 1 | Each | | | |
| 167 | 18 mm PVC Clips | Anchor | 1 | Each | | | |
| 168 | 25 mm PVC Clips | Anchor | 1 | Each | | | |
| 169 | 35 mm PVC Clips | Anchor | 1 | Each | | | |
| 170 | 63 Amps 4 Pole ELCB | Legrand / ABB / L&T | 1 | Each | | | |
| 171 | 40 Amps 4 Pole ELCB | Legrand / ABB / L&T | 1 | Each | | | |
| 172 | 40 Amps 2 Pole ELCB | Legrand / ABB / L&T | 1 | Each | | | |
| 173 | 63 Amps 2 Pole ELCB | Legrand / ABB / L&T | 1 | Each | | | |
| 174 | 10 Watt LED Bulb | Anchor | 1 | Each | | | |
| 175 | 15 Watt LED Bulb | Anchor | 1 | Each | | | |
| 176 | Syntex Street Light Box - 8 x 12" | syntex | 1 | Each | | | |
| 177 | Streetlight Arm bend | syntex | 1 | Each | | | |
| 178 | 650 mm wall mounting fan | almonard | 1 | Each | | | |
| 179 | 650 mm pedestal fan | almonard | 1 | Each | | | |
| 180 | 6" exhaust fan | L&T | 1 | Each | | | |
| 181 | panel locks | Anchor | 1 | Each | | | |
| | 300 mm cable tag | Anchor | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|-----------------------------------|--------|-----|-------|-----------|------------|------------------|
| 183 | 200 mm cable tag | Anchor | 1 | Each | | | |
| 184 | 100 mm cable tag | Anchor | 1 | Each | | | |
| 185 | 1 modular PVC Box | Anchor | 1 | Each | | | |
| 186 | 1 Modular PVC Plate | Anchor | 1 | Each | | | |
| 187 | 3 Modular PVC Box | Anchor | 1 | Each | | | |
| 188 | 4 Modular PVC Box | Anchor | 1 | Each | | | |
| 189 | 6 Modular PVC Box | Anchor | 1 | Each | | | |
| 190 | 8 modular PVC Box | Anchor | 1 | Each | | | |
| 191 | 12 modular PVC Box | Anchor | 1 | Each | | | |
| 192 | 10 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 193 | 16 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 194 | 25 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 195 | 35 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 196 | 50 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 197 | 70 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 198 | 95 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 199 | 120 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|-------|--|-------------|-----|-------|-----------|------------|------------------|
| 200 | 240 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 201 | 300 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 202 | 400 Sq Mm 3.5 Core Joint Heat kit | 3 m | 1 | Each | | | |
| 203 | 64 Amps, 4 Pole Street light connector | -- | 1 | Each | | | |
| 204 | Indication Lamp (R/Y/ B) | -- | 1 | Each | | | |
| 205 | Selector Switch - 440v | L&T/Select | 1 | Each | | | |
| 206 | 8 mm Anchor fastener nut & bolt - 1kg | -- | 1 | Each | | | |
| 207 | 12 mm Anchor fastener nut & bolt - 1kg | -- | 1 | Each | | | |
| 208 | 6 mm Anchor fastener nut & bolt - 1kg | -- | 1 | Each | | | |
| 209 | 8 mm nut & bolt - 1kg (SS) | -- | 1 | Each | | | |
| 210 | 8 mm nut & bolt - 1kg (Brass) | -- | 1 | Each | | | |
| 211 | 8 mm Insulators | -- | 1 | Each | | | |
| 212 | 6 mm insulators | -- | 1 | Each | | | |
| 213 | Rotatry switch cover - 63 AMP | L&T/Legrand | 1 | Each | | | |
| 214 | Rotatry switch cover - 32 AMP | L&T/Legrand | 1 | Each | | | |
| 215 | 125 AMPS MCCB - ENCLOSURE | L&T/Legrand | 1 | Each | | | |
| 216 | 250 AMPS MCCB ENCLOSURE | L&T/Legrand | 1 | Each | | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
|----------------|--|---|-----|-------|-----------|------------|------------------|
| 217 | 63 AMPS MCCB ENCLOSURE | L&T/Legrand | 1 | Each | | | |
| 218 | PUSH BUTTONS | Teknik/Equi | 1 | Each | | | |
| 219 | 3 POLE CONTACTORS | L&T/Equivalent | 1 | Each | | | |
| 220 | NO - NC BUTTONS | Teknic/ABB/Schneider | 1 | Each | | | |
| 221 | 16 MM EARTH BIT CLAMPS | -- | 1 | Each | | | |
| 222 | 30 W SPOT LIGHTS | Crompton/Bajaj/Orient/Havells/Panasonic | 1 | Each | | | |
| 223 | 15 SPOT LIGHTS | Crompton/Bajaj/Orient/Havells/Panasonic | 1 | Each | | | |
| 224 | BATTERY TERMINAL CONNECTORS | -- | 1 | Each | | | |
| A | Final Cost Price for one year (Rs.) | | | | | | |
| B | Final Cost Price for two years (Rs.) (ie) (A) X 2 | | | | | | |
| In Words (Rs.) | | | | | | | |

Note:

- Price should be quoted for all the items listed above in the specified pricing format without any overwriting/erasing/cutting. Use of white fluid/correction fluid/correction tape is strictly prohibited
- Quoted Prices are valid for One year from the date of contract, in case of any market variations/ increase after one year period prices shall be reviewed and negotiated by User, CMM & Finance. Within one year price variations must be accommodated in the cost quoted above.
- In case of any major cost escalations in the market and vendor failed to supply the materials required at site as per rate contract, request to form the Local Purchase committee on Adhoc basis for the Monthly spares procurements.

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE – D

| REPAIR COSTS | | | | | | | |
|--------------|---|--------------------------------|-----|-------|-----------|------------|------------------|
| S No. | ITEMS | MAKE | Qty | Units | MRP (Rs.) | % Discount | Final Cost (Rs.) |
| 1 | 200W FLP LED HIBAY FITTING | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 2 | 150W FLP LED HIBAY FITTING | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 3 | 150W NON FLP LED HIBAY FITTING | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 4 | 200W NON FLP LED HIBAY FITTING | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 5 | 250W NON FLP LED HIBAY FITTING | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 6 | 1400 MM CELLING FAN | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 7 | 1200 MM CELLING FAN | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 8 | 450MM WALL MOUNTING FAN | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 9 | 70W STREET LIGHT | Pranamyia/other OEM equivalent | 1 | Each | | | |
| 10 | 50 W STREET LIGHT | Pranamyia/other OEM equivalent | 1 | Each | | | |
| A | Final Cost Price for one year (Rs.) | | | | | | |
| B | Final Cost Price for two years (Rs.) (ie) (A) X 2 | | | | | | |
| | In Words (Rs.) | | | | | | |

Note:

- a. Price should be quoted for all the items listed above in the specified pricing format without any overwriting/erasing/cutting. Use of white fluid/correction fluid/correction tape is strictly prohibited



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- b. Quoted Prices are valid for One year from the date of contract, in case of any market variations/ increase after one-year period prices shall be reviewed and negotiated by User, CMM & Finance. Within one-year price variations must be accommodated in the cost quoted above

- c. In case of any major cost escalations in the market and vendor failed to supply the materials required at site as per rate contract, request to form the Local Purchase committee on Adhoc basis for the Monthly spares procurements.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE - E

LIST OF COMPULSORY SERVICES

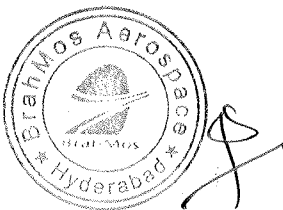
All consumables, services, tests, resources are to be included technically as necessary with respect to asset condition and OEM recommendations for the frequency of servicing needs suitably for the listed assets, end to end is in Contractor's scope only, on completion of each service billing shall be claimed).

Mandatory Annual Services to be carried out as below with respect to the services completion & its acceptance by BAPL, billing at actuals shall be claimed on respective services completion. The detailed technical scope & detailed checklists are enumerated in RFP at **Annexure –G** for reference.

| SI No | Service Description | Unit | Service Month | Qty Per Year (Service to be Carried out) | Quoted Basic Rate (Rs) | Total Basic Amount (Rs) |
|-------|--|--------|---------------|--|------------------------|-------------------------|
| 1. | Periodical Servicing by OEM / authorised vendor including cost of replacement of all standard parts, consumables, top up oil, painting etc., as recommended by BAPL. | | | | | |
| | 1.1) Transformers with RTCC panel servicing with Oil filtration | | Feb-2027 | | | |
| | 1.2) 4000KVA | No | | 1 | | |
| | 1.3) 2000KVA | No | | 2 | | |
| | 1.4) Transformer oil top-up/changes (billing at actuals) | Litres | | 750 | | |
| | 1.5) GASKETS replacement for each transformer | Set | | 01 | | |
| | 1.6) Silica Gel Breather | Set | | 01 | | |
| | 1.7) Oil Seals – HV/LV ide | Set | | 02 | | |
| | 1.8) Transformers with Busduct Painting Enamel Paint existing colour with proper surface preparation – 02 coats 2000KVA | Set | | | 02 | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| SI No | Service Description | Unit | Service Month | Qty Per Year (Service to be Carried out) | Quoted Basic Rate (Rs) | Total Basic Amount (Rs) |
|-------|---|------|---------------|--|------------------------|-------------------------|
| | Transformer | | | | | |
| | 1.9) Transformers Painting – Enamel Paint existing colour 02 coats with proper surface preparation – 4000KVA Transformer | Set | | 01 | | |
| 2. | Switch Yard maintenance/ service including cost of replacement of all standard parts, consumables etc. (Receiving yard with metring cubicle -01nos and Substation yard with main Switchgear room – 01nos) | Set | JAN-2027 | 01 | | |
| | 2.1) 33KV/11KV Yards with 04pole & 02pole structures and CT/PTs with structure, Isolators & Earth Switches, Lightning Arrestors, Earth pits, Instrumentation etc. | Set | | 02 | | |
| | 2.2) Yard structure & fence painting – Aluminium colour Enamel two coats with proper surface preparation. | Set | | 02 | | |
| 3. | HT Panels – 33KV/11KV (Shutdown Maintenance Service – Required Spares cost only to be quoted, Manpower utilization from Inhouse team) 33KV with Control relay panel & 11KV, service including cost of replacement of all standard parts, consumables etc | Set | July-2026 | 01 | | |

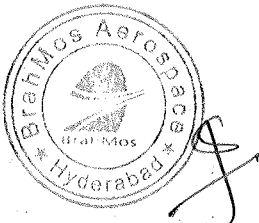


RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| SI No | Service Description | Unit | Service Month | Qty Per Year (Service to be Carried out) | Quoted Basic Rate (Rs) | Total Basic Amount (Rs) |
|-------|---|------|--|--|------------------------|-------------------------|
| 4. | LT Panels, Capacitor panels & DG Synchronisation panel – 440V (Shutdown Maintenance Service – Required Spares cost only to be quoted, Manpower utilization from Inhouse team) Control relay panels service including cost of replacement of all standard parts, consumables etc | No | July -2026 | 39 | | |
| 5. | Thermography Audit – Yearly | -- | | -- | | |
| 6. | 6.1) Before the Shutdown for all busbar/cable/DB/HT/LT Panels terminals to be carried out and all observations to be addressed/serviced suitably and Post servicing of all busbar/cable/DB/HT/LT Panels again thermography shall be done to ensure all issues are been closed and terminals are in normal conditions. | No | Before Shutdown - Apr-2027 & After Shutdown – May-2027 | 02 | | |
| | 6.2) 'B' Check for 750 KVA DG set by OEM (Make: Cummins) including cost of engine oil, grease, gaskets, consumables, and replaceable items as recommended by BAPL/OEM | No | MAR-2027 | 2 | | |
| 7. | 'B' Check for 320 KVA DG set by OEM (Make: Greaves) including cost of engine oil, grease, gaskets, consumables, and replaceable items as recommended by BAPL/OEM | No | MAR-2027 | 1 | | |
| 8. | 'B' Check for 25 KVA DG set by OEM (Make: SKL) including cost of engine oil, grease, gaskets, consumables, and replaceable items as recommended by BAPL/OEM | No | MAR-2027 | 1 | | |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| SI No | Service Description | Unit | Service Month | Qty Per Year (Service to be Carried out) | Quoted Basic Rate (Rs) | Total Basic Amount (Rs) |
|-------|---|------|---------------|--|------------------------|-------------------------|
| 9. | Calibration of 33 KV H.T VCB by OEM including cost of consumables & standard item replacement as recommended by BAPL/OEM | No | JAN-2027 | 2 | | |
| 10. | Calibration of 11 KV H.T VCB by OEM including cost of consumables & standard item replacement as recommended by BAPL/OEM | No | JAN-2027 | 4 | | |
| 11. | Periodical Servicing of 33 KV&11KV H.T VCBs by OEM including cost of consumables & standard item replacement as recommended by OEM/ Engineer-In-Charge. | No | JAN-2027 | 6 | | |
| 12. | Periodical Servicing of LT breakers (ACBs) by OEM including cost of consumables & standard item replacement as recommended by BAPL/OEM | No | JAN-2027 | 25 | | |
| 13. | Calibration of LT breakers (ACBs) by OEM including cost of consumables & standard item replacement as recommended by BAPL/OEM | No | JAN-2027 | 25 | | |
| 14. | Street LIGHT poles – 09 mtrs, Painting (Enamel – Aluminium color) of TWO Coats with Surface preparations suitably | No | FEB-2027 | 99 | | |
| 15. | Street Light poles – 02 mtrs, Painting (Enamel – Aluminium color) of TWO Coats with Surface preparations suitably | No | FEB-2027 | 45 | | |

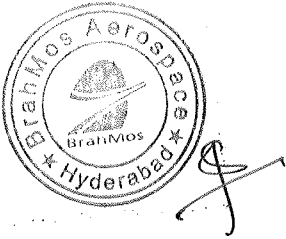




BrahMos Aerospace Private Limited
An India-Russia Joint Venture

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| SI No | Service Description | Unit | Service Month | Qty Per Year (Service to be Carried out) | Quoted Basic Rate (Rs) | Total Basic Amount (Rs) |
|-------|--|------|---------------|--|------------------------|-------------------------|
| 16. | Insulated Rubber Mats, at least 01 meter wide in front of all panels. Size – 3x6mtrs. (Once in Two Years, but on start of the contract 1 st replacement within 03months is mandatory) | No | SEP-2026 | 50 | | |
| A. | Final Cost Price for one year (Rs.) | | | | | |
| B. | Final Cost Price for two years (Rs.) (ie) (A) X 2 | | | | | |
| | In Words (Rs.) | | | | | |



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

PART-VI: FORMAT FOR PRICE BID

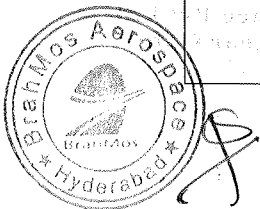
ANNEXURE – F

Table - 1

| Annexure No | NC-AMC Pricing Component Description | Total price for One year (Rs.) | Total price for Two years (Rs.) |
|-------------------------------------|--|---------------------------------------|--|
| A | Manpower Deployment Services | | |
| B | Paid Services Based on the site/equipment conditions utilization | | |
| D | Repair costs of Assets/Equipment's | | |
| E | List of Compulsory Services | | |
| Final Cost Price for one year (Rs.) | | | |
| Final Cost Price for two years (Rs) | | | |
| In Words (Rs.) | | | |

TABLE: 2

| Annexure No | NC-AMC Pricing Component Description | Total price for One year (Rs.) | Total price for Two years (Rs.) |
|-------------------------------------|---|---------------------------------------|--|
| C | Rate Contract for General Electrical Items | | |
| Final Cost Price for one year (Rs.) | | | |
| Final Cost Price for two years (Rs) | | | |
| In Words (Rs.) | | | |



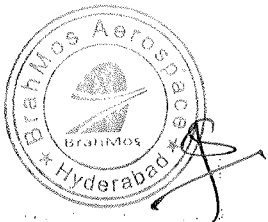
RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

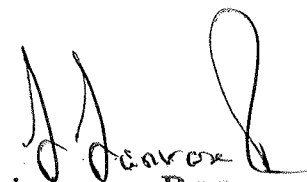
PART-VII: COMPLIANCE STATEMENT

The Bidder is required to submit detailed Compliance Statement containing all Terms & Conditions as enumerated at Part II, Part III, Part IV, Part V, Part VI and Part VII of this RFP and give confirmation of their acceptance of all Terms & Conditions. The deviations, if any, may be clearly indicated

| COMPLIANCE STATEMENT | | | |
|-----------------------------|------------------------------|---|--|
| Sl. No. | Clause | RFP Requirement | Comments by Bidder |
| | Part-I | GENERAL INFORMATION AND INSTRUCTIONS | |
| | Sl. No. of Clause as per RFP | Terms & Conditions as per RFP | Complied (Yes / No) If No, give details |
| | Part-II | SCOPE OF WORK | |
| | Sl. No. of Clause as per RFP | Terms & Conditions as per RFP | Complied (Yes / No) If No, give details |
| | PART-III | EVALUATION CRITERIA OF BIDS | |
| | Sl. No. of Clause as per RFP | Terms & Conditions as per RFP | Complied (Yes / No) If No, give details |
| | Part-IV | SPECIAL TERMS & CONDITIONS | |
| | Sl. No. of Clause as per RFP | Terms & Conditions as per RFP | Complied (Yes / No) If No, give details |
| | Part-V | STANDARD TERMS & CONDITIONS | |
| | Sl. No. of Clause as per RFP | Terms & Conditions as per RFP | Complied (Yes / No) If No, give details |
| | PART-VI | PRICE BID FORMAT | |
| | Sl. No. of Clause as per RFP | Terms & Conditions as per RFP | Complied (Yes / No) If No, give details |

- **There should be no discrepancy between the details mentioned in the Bid and the Compliance Statement.**
- **In case of any such discrepancies, the terms & conditions mentioned in the RFP and their compliances as mentioned in either of the two documents shall prevail.**




S Srinivasa Rao
General Manager (CMM)
BrahMos Aerospace Pvt. Ltd.
Near DRDL Rear Gate
Kanchanbagh, Hyderabad-500058.

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE –1

Scope of Work / Technical Requirements/ Operation & Maintenance Services/Specifications

Provision of Maintenance Services by deploying qualified and competent manpower for Operation and Maintenance of External & Internal Electrification, Pump House, installations, and equipment at BAPL, Hyderabad. In addition to routine operation and preventive maintenance of wiring & panels, periodical servicing for major equipment by authorized reps and break down maintenance including repair/restoration, ensuring electrical safety conditions are also to be carried out under the scope as per specific provisions.

- a) Manpower deployment services is enumerated in RFP at **Annexure – A**
- b) Paid services based on the site/equipment condition utilization shall be carried out and billing at actuals upon completion is enumerated in RFP at **Annexure – B**
- c) List of General Electrical Items under Rate contract for two years is enumerated in RFP at **Annexure –C**
- d) Repair costs of Assets / equipment is enumerated in RFP at **Annexure – D.**
- e) List of Compulsory Services – mandatory annual services to be carried out with respect to the services completion and acceptance by the BAPL is enumerated in RFP at **Annexure – E**
- f) The detailed technical scope & detailed checklists are enumerated in RFP at **Annexure– G**
- g) Tools and Accessories which form part of scope to be supplied by the contractor are mentioned under Special Conditions given at Annexure – H

Other consumables and spares/replaceable shall be procured and replaced on approval of BAPL, Hyderabad as and when required. Cost of the consumables & spares/ replaceable will be paid along with the monthly maintenance bill on production of purchased bills with gate entry stamp. All consumables, spares/replaceable shall be of original make or approved by BAPL, Hyderabad

Cost of all stationary related to Log Books, Service Reports, Ledgers, and Records shall also form part of the Scope of Work of contractor and to be supplied by contractor at his own cost.

The contractor must attend in person within 24- 48 hours for meetings called by engineer-in charge at BAPL Hyderabad office for resolving any issues related to contract/repair/replacement/manpower/any other issues etc. during contract period.

The scope of work also includes liaison with local municipal / electricity authorities for all necessary requirement and collection and handing over of payment towards tariff charges within the stipulated deadlines shall be responsibility of the contractor as per instructions of Engineer-in charge of BAPL.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE - G

TECHNICAL SCOPE & DETAILED CHECKLISTS

Given checklists are indicative, as per OEM and site equipment condition service to be carried out and cost to be quoted accordingly.

1. 33/11KV Substation Yards:

a). Power Transformers & RTCC Panel

The transformer is the heart of the yard. Maintenance focuses on insulation and cooling.

- a. Oil Levels: Check main conservator and OLTC (On-Load Tap Changer) oil levels.
- b. Silica Gel Breather: Inspect colour. If more than 50% is pink, replace or re-activate (blue indicates dry).
- c. Oil Leakages & Gaskets: Inspect tank, radiators, and bushings for any weeping or seepage, replace gaskets/seals to arrest leakages.
- d. Bushings: Clean porcelain bushings to remove coal dust/salt deposits (prevents flashovers). Check for cracks.
- e. Cooling Fans: Manually test radiator fans to ensure they trigger at set temperatures.
- f. RTCC Panel: Verify tap position matches between the transformer and the remote panel, servicing, and repair suitably as necessary.
- g. Testing: Conduct annual BDV (Breakdown Voltage) before filtration and after filtration and DGA (Dissolved Gas Analysis) of oil with Oil replacement/top-up based on oil conditions
- h. Instrumentation, Gauges and Relay: Healthiness and Integrity with reference to load conditions to be checked, replaced/corrected as necessary if fault.
- i. Painting (Enamel type) of existing color ONE coat to cover the surface of the equipment suitably with necessary surface preparation
- j. Painting of Busbars duct 02nos also included in this scope
- k. New Oil top-up of suitable capacity
- l. Transformer oil per litre cost to be quoted (Oil Capacity, 04 MVA – 3450 Ltrs including OLTC, 02MVA – 1030 Ltrs)

2. Air Circuit Breakers (ACB):

1. Visual & Mechanical Inspection

- a. Arc Chutes: Remove and inspect for soot, cracks, or burnt fins. If the chutes are clogged with carbon, the arc won't extinguish, potentially causing a panel explosion.
- b. Main Contacts, Arcing Contacts, Racking Mechanism, Brand-Specific Tip



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

2. **Cleaning & Lubrication:** Vacuuming, Greasing
3. **Electrical & Functional Testing:** Insulation Resistance (IR), Contact Resistance (CRM), Secondary Injection Test, Millivolt Drop Test
4. **The "Checklist" for Maintenance:** Auxiliary Contacts, Shunt/Closing Coils, Under-Voltage Trip, Spring Motor, Terminal Tightness, Trip Unit Battery, Critical Warning: "The First Trip"

Switchyard Equipment (VCBs, CTs, PTs)

3. Vacuum Circuit Breakers (VCB):

For a Yearly Preventive Maintenance (PM), the depth of inspection increases from simple visual checks to precision measurements. This ensures the VCB is capable of interrupting massive short-circuit currents without failing.

1. Physical & Environmental Inspection

- a. Structure: Inspect the VCB kiosk/structure for corrosion or rust. Touch up with zinc-rich paint if needed.
- b. Foundation: Check for any sinking or cracks in the concrete plinth.
- c. Vermin Proofing: Ensure all cable entry glands are sealed. Rats or lizards are the #1 cause of busbar flashovers.
- d. Heaters: Confirm the space heaters and thermostats are working. (Crucial for preventing condensation on the vacuum bottles).

2. Mechanical System (The "Drive" Mechanism)

- a. Cleaning: Wipe down the drive mechanism and all insulating poles with Isopropyl Alcohol.
- b. Lubrication: Remove old, dried-out grease from the cam, latches, and springs. Re-apply a high-performance synthetic lubricant.
- c. Spring Motor: Inspect the carbon brushes of the charging motor. Blow out any carbon dust with dry low-pressure air.
- d. Fasteners: Check the tightness of all circlips, pins, and bolts.
- e. Operations: Record the current reading on the Operations Counter to track the VCB's life cycle.

3. Vacuum Interrupter (The "Bottles")

- a. Erosion Check: View the wear-indicator mark on the moving contact stem. If the mark has disappeared, the contacts are too thin to be safe.
- b. Surface Integrity: Check the ceramic/epoxy surface of the bottles for tracking marks or hairline cracks.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

4. Electrical Testing (Standard Yearly Values) –

- a. Record these values in your logbook to track the "trend" of the breaker's health over the years.
- b. Insulation Resistance (IR) – with 5kV Megger, > 2500 Mohm (Phase to Earth / Across Contacts).
- c. Contact Resistance (CRM) – with 100A Micro-Ohm, < 50 - 100 micro-Ohm (Refer to OEM manual)
- d. Breaker Timing - Timing Kit Closing: < 60 ms / Opening: < 40 ms
- e. High Voltage (Hi-Pot) AC/DC HV Kit Must withstand rated voltage (e.g., 75kV for 1 min)

5. Current (CT) & Potential (PT) Transformers:

- a. Inspect for oil leakage and secondary terminal tightness.
- b. Tightening primary terminals, checking for oil leaks/levels, Winding testing etc.
- c. Check for any "buzzing" sounds (corona discharge) or overheating.

6. Isolators & Earth Switches:

- a. Ensure complete opening/closing contact alignment.
- b. Apply conductive grease to contact "fingers."
- c. Check that the interlock between the VCB and Isolator is functional.

7. Lightning Arrestors (LA) & Earth Pits

- a. Surge Counters: Record the number of strikes. Ensure the LA is grounded properly.
- b. Earth Resistance: Measure earth pit resistance using a 3-point tester.
- c. Standard: Substation Neutral < 1.0 Ohm; Equipment Body < 2.0 Ohm.
- d. Watering: Ensure earth pits are watered regularly, especially in summer, to maintain low resistivity.
- e. Connections: Check for rusted or loose earthing strips (GI/Copper).

8. Protection Relays & Instrumentation

- a. Relay Testing: Perform secondary injection tests on Overcurrent (OC) and Earth Fault (EF) relays.
- b. Battery Bank & Charger: * Check DC voltage (typically 110V or 220V). A dead battery bank means the breakers won't trip during a fault.
- c. Check electrolyte levels and clean terminal corrosion.
- d. Control Wiring: Inspect for rat/rodent damage in cable trenches and panels.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

9. Yard Infrastructure & Safety

- a. Vegetation Control: Remove all grass, weeds, and saplings. The yard should be covered with a layer of gravel/crushed stone (prevents step/touch potential and fire).
- b. Fencing: Ensure the perimeter fence is intact and "Danger" boards are visible.
- c. Illumination: Check all yard floodlights for night-time patrolling and emergency repairs.
- d. Fire Extinguishers: Verify the pressure of ABC type or CO2 or DCP extinguishers near the transformer.
- e. Earth pit - Meggarring, Watering (if applicable) with Salt, Fasteners tightness, Continuity checks, Pit cleaning, Pit chamber cover healthiness, Replace if any rusted fasteners and strip suitably.
- f. Painting (Enamel – Aluminium colour) of Two Coats for all Yard equipment's, metal structures and yard fencing with Surface preparations suitably
- g. Insulators - Check for any visual cracks, seating, tightness and replace if faulty, Other miscellaneous available in the yard if any

Monthly PM Schedule Summary Table – Substation Yards

| Equipment | Frequency | Key Action Item |
|------------------|------------------|--|
| Transformer | Monthly/ Annual | Check Silica Gel, Oil Temp, Gauges, Leakages, Oil levels, BDV test, Instrumentation & Relays |
| VCB | Annual | Mechanical Lubrication & Trip Test |
| Isolators | Annual | Contact alignment & Greasing |
| Earth Pits | Quarterly | Resistance Measurement, salt filling and Watering |
| Battery Bank | Weekly | Check Voltage & Specific Gravity |
| Yard Area | Monthly | Grass/weed cutting & Gravel levelling |

10. DG SETS MAINTENANCE

A Preventive Maintenance (PM) program for Diesel Generator (DG) sets is typically divided into A, B, C, and D Checks. Following this structured approach ensures high reliability for emergency backup power.

***750KVA DG sets must be serviced and spares/consumables replacements with OEM CUMMINS only as per their guideline's, given checklist is indicative, as per OEM and equipment condition service to be carried out and cost to be quoted accordingly.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

A. Monthly Maintenance & Operational Testing

- a. Test Run: Exercise the DG for 15–20 minutes.
- b. Operational Parameters: Record Oil Pressure, Water Temperature, Voltage (415V+/- 1%), and Frequency (50Hz +/- 2%).
- c. Belts: Check the tension and condition of the V-belt (Radiator fan/Charging alternator belt).
- d. Air System: Check the air filter vacuum indicator. If it shows "Red," the filter needs cleaning or replacement.

B. Daily "A-Check" (Operator Level)

These checks are performed every morning to ensure the DG is ready to start instantly during a power failure.

- a. Lubrication: Check oil level using the dipstick (must be between Min and Max).
- b. Cooling System: Check coolant level in the radiator/recovery tank. Inspect for any hose leaks.
- c. Air System: Check for air cleaner restriction and pre-cleaner
- d. Fuel System: Check diesel level in the day tank. Drain water from the fuel-water separator.
- e. Battery: Verify battery voltage (> 12.5V for 12V systems or > 25V for 24V systems). Clean terminals if sulphated.
- f. Visual Inspection: Look for "sweating" or leaks of oil, fuel, or coolant on the floor.
- g. Electrical System: Inspect for loose parts, damaged exhaust hoses and ensure the generator is in Auto mode.
- h. General/Safety: Inspect for loose parts, damaged exhaust hoses
- i. Run Check: Start the Generator to check for abnormal noises or vibration

C. "B" Check (Every 250-500 Hours or 6 Months)

The B-Check is the most common preventative service. It involves changing the "consumables" of the engine.

- a. Oil Change: Drain old lube oil and refill with fresh oil (Valvoline Premium Blue 7800 Plus).
- b. Oil Filter: Replace the full-flow lube oil filters and bypass oil filter. Record oil pressure.
- c. Fuel Filters: Replace the primary and secondary fuel filters.
- d. Change water separator and clean fuel tank breather
- e. Drain sediment from fuel tank
- f. Air Filters: Replace the filters, they may be clogged.

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- g. Clean the crankcase breather
- h. Check air piping and hoses for leaks or cracks
- i. Cooling System: Clean the radiator fins using low-pressure air or water to prevent overheating.
- j. Replace with new Coolant Liquid with Corrosion inhibitor
- k. Clean Radiator exterior (with chemical if required)
- l. Safety Controls: Test the "High Water Temperature" (HWT) and "Low Lube Oil Pressure" (LLOP) trip mechanisms.
- m. Bypass Filter: Replace the bypass filter if the engine is equipped with one.
- n. Flexible Hose - 02nos for each DG set
- o. Electrical & Alternator system: Check battery electrolyte level and voltage (should be 24VDC)
- p. Clean and tighten the battery terminals
- q. Inspect alternator for dust and dirt
- r. Check all the electrical connections for tightness
- s. Mechanical & Safety: Check for fan belt condition and tension (tighten if loose)
- t. Check exhaust system for leakages
- u. Check engine mounting bolts and vibration pads
- v. Perform a test run, observing for abnormal noise or vibration

In a Diesel Generator (DG) set, the C and D Checks are classified as "Top Overhaul" and "Major Overhaul" respectively. These are deep-maintenance procedures required after the engine has completed a significant number of running hours.

D. "C" Check (Every 1000-1500 Hours or 1-2 Years)

The C-Check is an "Intermediate Overhaul." It focuses on the engine's calibration and mechanical tuning.

- a. Repeat A & B Checks
- b. Valve Tappet Clearance: Check and adjust the intake and exhaust valve clearances (Tappet setting).
- c. Fuel Injectors: Remove, clean, and "Nozzle test" the injectors for proper spray pattern and pressure.
- d. Cylinder Head: Inspection of the top surface and gaskets for signs of leakage.
- e. Turbocharger: Check for end-play in the turbine shaft and look for oil leaks. Inspecting the turbine and compressor wheels for axial play or carbon deposits.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- f. Vibration Damper: Inspect for cracks or fluid leaks.
- g. Alternator Maintenance: Check the winding insulation resistance (IR Value) and grease the bearings.
- h. Engine Mounting: Tighten all foundation bolts and check the anti-vibration mounts (AVM).
- i. FIP Pump: Calibration and timing check of the Fuel Injection Pump (if required by the specific model).
- j. Cooling system major service: Deep cleaning of the radiator and replacement of the thermostat valve.
- k. Electrical & Performance checks
- l. Fuel and Air system inspections
- m. General Inspections: Engine mounts, External hardware, Electrical accessories

E. D-Check (Major Overhaul)

The D-Check is the most extensive maintenance level. It involves stripping the engine down to the block to replace worn internal components.

- a. Frequency: Every 3,000 to 5,000 Running Hours or 4–5 Years (depending on engine manufacturer like Cummins, Caterpillar, or Kirloskar).
- b. Key Technical Activities:
 - i. Pistons & Rings: Removal and replacement of piston rings and inspection of piston crowns.
 - ii. Cylinder Liners: Measuring liner wear; replacement if honed surface is polished
- c. Bearings: Replacement of Main Bearings and Connecting Rod (Big End) bearings.
- d. Crankshaft: NDT (Non-Destructive Testing) or "Magnetic Particle Inspection" to check for micro-cracks and checking of "Crankshaft Deflection."
- e. Valve Grinding: Lapping of intake and exhaust valves into the cylinder head.
- f. Water Pump & Oil Pump: Complete overhauling or replacement of these critical pumps.
- g. Alternator: Cleaning of windings (varnishing) and replacement of drive-end/non-drive-end bearings.

F. Electrical & Control System (AMF Panel)

The DG is only as good as its automation.

- a. AMF Logic: Test the "Auto Start" functionality by simulating a mains failure. The DG should take the load within 7–15 seconds.

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- b. Safety Shutdowns: Periodically test the following trip sensors:
- HWT: High Water Temperature ($> 95^{\circ}\text{C}$).
 - LLOP: Low Lube Oil Pressure ($< 1.5\text{--}2.0 \text{ kg/cm}^2$).
 - Over-speed: Typically, 110% of rated RPM.
- c. Alternator: Inspect the AVR (Automatic Voltage Regulator) for loose connections. Conduct an Insulation Resistance (Megger) test annually ($> 2\text{M}\Omega$).

G. Environment & Compliance

- Exhaust: Check for excessive black smoke (indicates air blockage or injector issues) or white smoke (indicates coolant leakage into the chamber).
- Acoustic Canopy: Ensure all foam insulation is intact to maintain noise levels as per CPCB norms.
- Earth Pits: The DG body and neutral must be connected to separate, dedicated Cu earth pits.

11. Fire Pump House Operations - Fire Pumps, Borewell Pumps & Raw Water Distribution Pumps

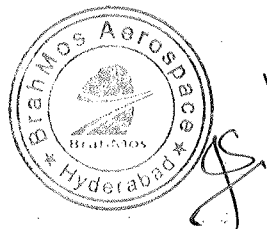
Since the Fire Hydrant Pump House is the most critical safety system in our facility, its maintenance requires a rigorous, non-negotiable schedule. Below is the detailed PM checklist for the Pump House, including the Fire Pumps (Electric & Diesel), Jockey Pump, Raw Water pumps and Borewell system.

A. Pump House Operations Checklist – Fire Pumps, Borewell Pumps & Raw Water Distribution Pumps

The goal is to ensure the system always maintains a "Header Pressure" of 7.0 kg/cm^2 .

● **Daily / Weekly Checks (Operational)**

- System Pressure: Verify the pressure gauge on the main header. Any drop below 6.0 kg/cm^2 indicates a leak in the hydrant line.
- Valve Positions: Ensure all suction and delivery valves are locked in the OPEN position.
- Jockey Pump Test: Briefly reduce pressure to ensure the Jockey Pump starts automatically at $\sim 6.0 \text{ kg/cm}^2$ and stops at 7.0 kg/cm^2 .
- Main Electric Pump Test: Ensure the main pump starts automatically at $\sim 5.0 \text{ kg/cm}^2$.
- Diesel Engine (Standby) Test: Manually start the Diesel Engine once a week for 5–10 minutes. Check the battery charging status.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

● **Fire Diesel Engine PM Checklist**

- i. Unlike a standard DG set, a Fire Engine must be capable of running at full load immediately without a warm-up period.
- ii. Battery Health: Check the specific gravity of the battery. Since these engines sit idle, battery failure is the #1 cause of system failure.
- iii. Cooling System: Ensure the heat exchanger/radiator is clean. Check the cooling water flow.
- iv. Fuel Level: The diesel tank must always be 100% full. Check for sediment at the bottom of the tank.
- v. Emergency Start: Test the manual "Override" start button to ensure the engine runs even if the controller fails.

● **Borewell Pump Maintenance**

- i. Current (Amps): Monitor the running current. An increase indicates mechanical friction or a jammed impeller; a decrease indicates dry running or a broken pipe.
- ii. Control Panel: Inspect the Star-Delta starter, contactors, and the Dry Run Protection relay.
- iii. Yield Check: Monitor the time taken to fill the overhead/underground tank to detect a dropping water table.

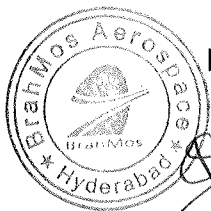
12. Earth Pits & Lightning Protection

For a 33/11kV site, earthing is a life-safety requirement.

- a. Identification: Every earth pit must be numbered and identified (e.g., "Transformer Neutral," "LA Earth," "Body Earth").
- b. Maintenance:
 - i. Quarterly: Measure resistance using an Earth Tester (< 1.0 Ohm for neutral, < 2.0 Ohm for body).
 - ii. Connectivity: Check for "Green Rust" (oxidation) on copper strips or "White Rust" on GI strips.
 - iii. Salt/Charcoal: Refill with earthing compound if resistance values increase.

13. Light Fittings & Distribution Boards (DBs)

- a. Yard Lighting: Inspect and rectify the high-mast lights and perimeter lighting. Ensure "Automatic Dusk-to-Dawn" (Timer/Photocell) switches are working.
- b. Building DBs: * Clean and Check for "loose sparking" at MCB/RCCB terminals using a thermal gun, tighten all terminals in OFF condition



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- c. Ensure RCCBs (Residual Current Circuit Breakers) are tested using the "Test" button monthly to prevent electrocution hazards.

14. Battery Charger – 110V DC:

The charger is a power electronics device. Heat and dust are its primary enemies.

- a. Control Card Calibration: Verify that the digital meters on the panel match the actual values measured by a calibrated multimeter.
- b. Ripple Voltage Test: Use an oscilloscope or a high-end multimeter to measure the AC ripple in the DC output.
- c. *Standard*: Excessive ripple (usually >2%) can "cook" the batteries and damage sensitive protection relays.
- d. Insulation Resistance (IR): Measure IR between AC Input to Earth and DC Output to Earth. (Target: >10M Ω).
 - i. Alarm Simulation: Manually trigger alarms for:
 - ii. DC Overvoltage / Undervoltage.
 - iii. Mains Failure.
 - iv. Earth Fault (Positive and Negative).
- e. **Component Health**: Inspect capacitors for bulging and power resistors for discoloration due to overheating.
 1. Battery Bank (Annual Capacity & Health)
- f. This is where you determine if the batteries will last 10 minutes or 10 hours during an outage.
 - A. The Capacity (Discharge) Test
- g. This is the most important yearly task.
- h. **Load Test**: Discharge the battery bank at a constant current (C10 or C5 rate) using a load bank.
- i. **Monitoring**: Record the voltage of every individual cell every 30–60 minutes.
- j. **Pass/Fail**: If any cell drops below $\$1.8\text{V}$ (for Lead Acid) significantly faster than the others, that cell is failing. If the total bank voltage hits the cutoff before 80% of its rated time, the bank needs replacement.
- k. Physical & Chemical Maintenance
 - i. Torque Check: Re-torque all inter-cell connectors. High resistance at a single joint can lead to a fire during high-current discharge (like a VCB closing).
 - ii. Specific Gravity: For flooded cells, compare current gravity readings with last year's. A downward trend across all cells indicates aging; a drop in one cell indicates a "shorted" or "dead" cell.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

15. New Earth pit Scope of works - Chemical Type with Copper coated Rod

Chemical/Maintenance-Free Earthing Compounds (Modern Scope)

Modern interpretations of IS 3043 allow for maintenance-free chemical compounds, often termed **Earth Enhancement Material (EEM)** or **Backfill Compound**. These compounds are preferred for providing consistent, long-term low resistance.

Composition: Typically contains graphite carbon powder, conductive cement, sodium montmorillonite, and hydrous aluminium silicate.

Characteristics:

- a. **Low Resistivity:** Preferably below 0.2 ohm-meter.
- b. **pH Value:** Slightly alkaline, with a pH > 7 and < 9.
- c. **Moisture Retention:** Hygroscopic, able to absorb and release moisture, and does not rely solely on continuous water presence.
- d. **Non-Corrosive:** Must be chemically inert to avoid corroding the earth electrode.
- b. **Types:** Bentonite-based (for moisture retention) or Graphite/Carbon-based (for superior conductivity).
- c. **Inspection Chamber:** A Pre-cast concrete inspection chamber (approx. 30cm x 30cm x 30cm) with FRP chamber cover is required for maintenance and testing.

16. New Earth pit Scope – GI Pipe earthing.

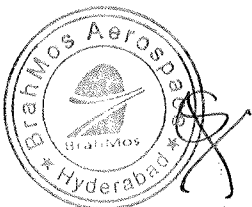
GI Pipe earth type with Salt and Charcoal as per IS 3043 on need basis as per IS 3043:1987 (Code of Practice for Earthing), GI pipe earth pits involve burying a galvanized iron pipe—typically diameter, long—vertically, surrounded by charcoal/salt or backfill compound, installed at a minimum depth, and equipped with a chamber, funnel, and GI strip/wire connections for grounding.

- Inspection Chamber: A Pre-cast concrete inspection chamber (approx. 30cm x 30cm x 30cm) with FRP chamber cover is required for maintenance and testing.

17. New Earth pit Scope – Copper Plate earthing

GI Pipe with Cu plate type with Salt and Charcoal as per IS 3043, on need basis
Scope Summary for Copper Plate Earthing (IS 3043)

- a. **Electrode Material & Size:** A solid copper plate of minimum size 600 mm x 600 mm x 3 mm is required.
- b. **Installation Position:** The plate must be placed vertically in the earth pit, with the top edge at a depth of not less than 03 meters below ground level.
- c. **Earth Pit Preparation:** The pit is generally excavated to 900mm x 900mm x 3000mm depth.



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

- d. Conductivity Enhancement: The copper plate must be surrounded by alternate layers of charcoal/coke and salt (approx. 150mm layers) to ensure moisture retention and low resistance.
- e. Connection Method: Copper earth strips (25mm x 3mm) should be securely bolted and brazed/welded to the plate at two or more points to ensure a robust connection.
- f. Watering Arrangement: A GI pipe (minimum 19mm/20mm dia) with a funnel and wire mesh is installed for watering, typically located at the top of the pit.
- g. Inspection Chamber: A Pre-cast concrete inspection chamber (450mmx450mmx300mm height) with FRP chamber cover is required for maintenance and testing.
- h. Resistance Goal: The target earth resistance for a single plate should ideally be below 3 ohms, though this depends on soil conditions.
- i. Separation: Earth pits for lightning protection should be kept separate and not mixed with electrical system earthing.

18. Electrical DB Preventive Maintenance Checklist

| Category | Inspection Item | Status (✓/X) | Reference / Action |
|------------|----------------------|--------------|--|
| Physical | Panel Cleanliness | | Vacuum dust/cobwebs; no moisture ingress. |
| | Door & Latches | | Door swings freely and locks securely. |
| | Gland Plates | | Unused knockouts are plugged (IP rating). |
| Safety | Labels/Directory | | Every circuit is clearly and accurately labelled. |
| | Dead Front Cover | | Screws present; no exposed live parts. |
| | Warning Signs | | "Danger High Voltage" stickers are legible. |
| Protective | RCD/ELCB Test | | Press "Test" button; must trip instantly. |
| | MCB Condition | | No signs of melting, soot, or loose toggles. |
| | Phase Barriers | | Insulating dividers are in place between phases. |
| Electrical | Connection Tightness | | Check for "hot" or loose neutral/phase wires. |
| | Neutral/Earth Bar | | Wires are tidy; no "double-lugging" (2 wires in 1 hole). |
| | Voltage Balance | | Verify consistent voltage across all phases. |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

19. Battery & Charger Maintenance Log

| Category | Inspection Item | Status (✓/X) | Reference Value / Note |
|--------------|--------------------|--------------|--|
| Charger | Output Voltage | | Float: ~2.25V/cell; Equalize: ~2.35V/cell |
| | Output Amperage | | Should be low if battery is fully charged |
| | Ground Fault Lamp | | Must be OFF (indicates no leakage to ground) |
| | Cooling Fans/Vents | | Clear of dust; fans spinning freely |
| Battery Bank | Case Integrity | | No cracks, leaks, or bulging walls |
| | Electrolyte Level | | Between MIN and MAX lines (Flooded only) |
| | Terminals/Lugs | | No white "fuzz" (sulfation) or corrosion |
| | Inter-cell Links | | Tight and coated with protective grease |
| | Cleanliness | | Jars wiped down (prevent tracking current) |
| Environment | Room Temp | | Ideal: 20°C–25°C (68°F–77°F) |
| | Ventilation | | Exhaust fan functional |
| | Safety Gear | | Eyewash station and spill kit present |

20. Water & Fire Pump Maintenance Checklist

| Category | Task Item | Water Pump | Fire Pump | Notes/Standards |
|------------|--------------------|------------|-----------|---|
| Mechanical | Packing Glands | ✓ | ✓ | Look for 1 drop/sec for cooling/lubrication. |
| | Bearing Lube | ✓ | ✓ | Check for grease levels or oil clarity. |
| | Coupling/Alignment | ✓ | ✓ | Inspect for rubber dust (sign of misalignment). |
| | Casing/Seals | ✓ | ✓ | Inspect for leaks or excessive vibration. |
| Electrical | Controller/Starter | ✓ | ✓ | Check for pitted contacts or loose wires. |
| | Motor Amperage | ✓ | ✓ | Compare against nameplate Full Load Amps. |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| Category | Task Item | Water Pump | Fire Pump | Notes/Standards |
|-------------|-------------------|------------|-----------|---|
| Hydraulic | Suction/Discharge | ✓ | ✓ | Verify gauges show correct static pressure. |
| | Strainers | ✓ | ✓ | Clean debris to prevent cavitation. |
| | Churn Test | - | ✓ | Run weekly (Electric) or daily (Diesel). |
| Diesel Only | Fuel Level | - | ✓ | Tank must be at least 2/3 full. |
| | Battery Health | - | ✓ | Check charger and electrolyte levels. |
| | Engine Cooling | - | ✓ | Inspect heat exchanger and water flow. |

21. Street Light Preventive Maintenance Checklist

| Category | Inspection Item | Status (✓/X) | Reference / Action |
|------------|---------------------|--------------|--|
| Physical | Pole Alignment | | Check for leaning or structural damage. |
| | Foundation/Base | | Inspect for concrete cracks or loose anchor bolts. |
| | Service Door | | Ensure the base plate door is present and bolted. |
| Luminaire | Fixture Cleanliness | | Clean the glass/polycarbonate cover (lens). |
| | Gasket Condition | | Check for dry rot; ensures IP65/66 rating. |
| | Mounting Arm | | Check for rust or loose mounting brackets/clamps. |
| Electrical | Internal Wiring | | Inspect for frayed wires or heat damage at the base. |
| | Fuse/MCB | | Verify the individual fuse in the pole base is intact. |
| | Grounding/Earthing | | Test continuity from pole to the grounding rod. |
| | Surge Protection | | Ensure SPD is functional (LED indicator Green). |
| Controls | Photocell/Timer | | Cover sensor to test; light should turn on. |
| | Dimming Driver | | (If LED) Check for flickering or reduced output. |

RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

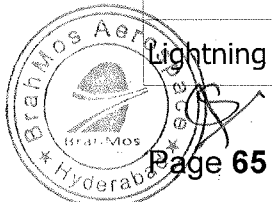
22. Electrical Panel Preventive Maintenance Checklist

| Category | Inspection Item | Status (✓/X) | Reference / Action |
|-----------------|---------------------|--------------|---|
| Safety & Access | Working Clearance | | Maintain 36" (914mm) clear space in front. |
| | Arc Flash Labels | | Ensure safety/PPE labels are present and legible. |
| | Panel Directory | | Verify all circuit labels match actual loads. |
| Physical | Enclosure Condition | | Check for rust, dents, or signs of water entry. |
| | Cleanliness | | Vacuum dust/debris (use non-metallic nozzle). |
| | Seal / Gaskets | | Ensure door gaskets are intact to block dust. |
| Electrical | Thermal Scan (IR) | | Check for hot spots (lugs, breakers, cables). |
| | Termination Torque | | Tighten loose bolts to manufacturer specs. |
| | Phase Balance | | Measure amps; ensure variance is <10% |
| | Grounding/ Bonding | | Confirm ground wire is secure and corrosion-free. |
| Protective | Breaker Exercise | | Toggle breakers OFF/ON to prevent sticking. |
| | RCD/GFCI Test | | Press "Test" button to ensure instant tripping. |
| | Indicator Lights | | Replace any burnt-out phase or status bulbs. |

23. LIST OF CRITICAL SPARES.

1. 33kV & 11kV Substation Spares (Outdoor/Indoor Yard)

| Equipment | Essential Spare Parts | Purpose |
|----------------------------|---|--|
| Circuit Breakers (VCB/SF6) | Tripping/Closing Coils, Charging Motors | Ensures breaker can operate during a fault. |
| Transformers | Silica Gel, Explosion Vent Diaphragm | Moisture control and pressure safety. |
| Bushings | Porcelain/Polymer Bushings (1 of each size) | Replaces cracked or flashed-over insulators. |
| Isolators | Female/Male Contacts, Gland Rope | Fixes pitted or jammed manual switches. |
| Lightning | 33kV & 11kV LA Units | Protects against surge after a strike. |



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

| Equipment | Essential Spare Parts | Purpose |
|-------------------|---|---|
| Arrestors | | |
| Protection Relays | Numerical Overcurrent/Earth Fault Relay | Backup for failed "brain" of the panel. |

2. 440V (L.V.) Distribution Spares

These are the most frequently used parts due to higher wear and tear in the Distribution Boards (DBs).

| Category | Item Name | Notes |
|--------------|---|---|
| Switchgear | Air Circuit Breaker (ACB) Arcing Chutes | Absorbs the spark during high-load switching. |
| Protection | HRC Fuses (Assorted: 63A to 630A) | Essential for rapid fault isolation. |
| Control | Contactors & Auxiliary Contacts | Spares for motor starters and pumps. |
| Terminations | Cable Lugs (AL/CU) & Heat Shrink Kits | For emergency cable repairs or extensions. |
| MCCB/MCB | 10A to 125A Breakers | Standard replacements for failed branch circuits. |

24. Summary of 24/7 Manpower Deliverables:

NC-AMC team should provide the following MIS report.

- Summary of Key Highlights and Difficulties/Support required for each month
- Energy & Water Consumption Report: (Main Meter vs Sub-meters – Plant & Building wise)
- Fuel Consumption (DG): Liters vs Units generated.
- Breakdown Analysis & its closure action: Total downtime of any critical equipment with Summary
- Compliance Certificate: Ensuring all staff received Central Minimum Wages and safety PPE (Gloves, Helmets, Mats) is in use



RFP No: BM(H)/CMM/RFP/26-27/2209, Date: 19th May 2026

ANNEXURE - H

LIST OF TOOLS AND EQUIPMENT'S TO BE MAINTAINED BY THE CONTRACTOR

Essential maintenance tools and accessories to be maintained by the contractor at his own cost

| Category | Primary Items required at site | Maintenance Frequency |
|---------------------------|--|--|
| HV Safety | Discharge rods - 03nos, HV Gloves - 33KV - 02 nos | Pre-use check |
| Diagnostic | Megger, BDV Kit, CRM Meter, Digital Clampmeter-02nos, Digital Multimeter-03nos | Annual Calibration |
| Hand Tools | Insulated Pliers, Torque Wrench, Spanners set (Ring + Flat), Box Spanner set, Drilling bits-6mm, 8mm, 16mm, Drilling chuck, Air Blower – 800W, cutting machine, Nose plier, Hole saw cutter, Wooden gutta, Crimping tools, Screw Driver set – small to big, Measurement tape (50mtrs)-01nos, Steel rule-01mtrs-01nos, Allen keys set-01nos, Plumber tool kit- Pipe wrench, Adjustable spanner set, Hacksaw frame, Files – Round & Flat type. Insulated Ladder – 08ft | Monthly cleaning |
| Safety PPEs for Personnel | Safety Shoes – ISI marked, Safety Gloves(33kv)-02pairs, cut resistant gloves-05pairs, Hard hats, Goggles, Cotton gloves, Emergency Torch Lights-02nos, Rain Coat – 03nos, Umbrella – 03nos First Aid Box with medicines – 02set (Substation & Pumphouse) | Annually to be issued/ replaced suitably on its wear & tear |
| Insulated Rubber Mats | At least 01-meter-wide in front of all panels. Qty-50nos, Size – 3x6mtrs | Once in Two Years, but on start of the contract 1 st replacement within 03months is mandatory |

Note:

- i. The above list is only indicative. Contractor will deploy all such tools and equipment as may be required to meet all eventualities that might arise during execution of scope of work as per instructions of Engineer-in-charge of BAPL.
- ii. All the instruments used should have been calibrated (as applicable) before use and the certificate to this effect should be shown to the Engineer-In-Charge, if demanded. If the BAPL authority demands re-calibration of instrument, it must be carried out immediately by the contractor.

