

GOVERNMENT OF BIHAR | AGRICULTURE DEPARTMENT

BIHAR HORTICULTURE DEVELOPMENT SOCIETY

REQUEST FOR PROPOSAL

Selection of Agency for 100% Third-Party Inspection / Physical Verification and Quality Control of Micro-Irrigation Systems

Per Drop More Crop (PDMC)

Procuring Entity	Bihar Horticulture Development Society, Directorate of Horticulture, Agriculture Department, Government of Bihar
Procurement Platform	Government e-Marketplace (GeM)
Geographical Coverage	All districts of Bihar
Scheme / Period	Per Drop More Crop (PDMC), FY 2026-27 & 2027-28
Bid Particulars	Bid number, dates, estimated quantities, bid security, performance security and validity shall be as specified in the portal-generated GeM Bid Document.

Krishi Bhawan, Mithapur, Patna - 800001, Bihar



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1. Invitation for Bids

The Bihar Horticulture Development Society (BHDS), Directorate of Horticulture, Agriculture Department, Government of Bihar, invites electronic bids through the Government e-Marketplace for selection of a competent service provider to undertake 100% third-party inspection and physical verification of installed micro-irrigation systems and to support independent material-quality surveillance and laboratory testing under PDMC during FY 2026-27 & 2027-28.

The assignment is output-based. Payment shall be linked to accepted field-verification reports, accepted re-inspections, accepted enhanced technical checks, completed joint sampling and accepted laboratory reports. No separate payment shall be made for a standing office, vehicles, manpower-months or administrative establishment.

2. Procurement Data and Governing Documents

Parameter	Provision
BHDS	Bihar Horticulture Development Society / Directorate of Horticulture, Agriculture Department, Government of Bihar
Procurement route	GeM
Nature of contract	Non-consulting, output-based inspection and testing service
Location	All districts of Bihar
Mandatory field coverage	100% of completed and eligible MI installations assigned by the BHDS
Material-quality coverage	Random and risk-based surveillance sampling as approved or directed by the competent authority / SLSC
Contract period	2026-27 & 2027-28; Maximum 2 Year, Performance Based Extension, One Year at a time.
Estimated quantities and value	As specified in the portal-generated GeM Bid Document
Bid security, performance security and bid validity	As configured in the portal-generated GeM Bid Document and applicable GeM rules

Parameter	Provision
Method of selection	Lowest evaluated responsive price among technically qualified bidders, as configured on GeM

This RFP shall be read with the portal-generated GeM Bid Document, applicable GeM General Terms and Conditions, Special Terms and Conditions, Service Level Agreement, BHDS-uploaded ATC and corrigenda. The prevailing GeM framework shall govern in the event of inconsistency with any mandatory portal condition.

3. Definitions

Term	Meaning
BHDS / Procuring Entity	BHDS and the Directorate of Horticulture, Government of Bihar, including designated DD/AD (Agriculture Engineering).
TPIA / Agency	The successful bidder appointed to perform the services.
MI System	A drip, sprinkler, micro-sprinkler, mini-sprinkler, semi-permanent sprinkler, rain-gun or other eligible micro-irrigation system installed under PDMC.
Installation / Site	A completed MI system linked to a unique application, sanction or QR code and a specific farmer field. Separate non-contiguous or separately coded systems are treated as separate sites.
Basic Field Verification	The mandatory inspection, material verification, functional trial run and digital reporting at every assigned installation.
Enhanced Technical Check	A deeper hydraulic or performance assessment ordered for a separately identified risk-based sub-sample.
Approved Laboratory	CIPET, BIS laboratory, an eligible ICAR institute or State Agricultural University laboratory, another government/autonomous product-testing laboratory approved by the competent authority / SLSC, or a NABL-accredited laboratory having relevant test scope.
SLSC	State Level Sanctioning Committee under the applicable PDMC / RKVY framework.

4. Background and Mandatory Compliance

Clause 8.7 of the Operational Guidelines of PDMC, 2025 requires the State Implementing Agency to engage third-party inspection agencies for inspection and physical verification of installed MI systems at every farmer field. Each installed site is to be checked for the material supplied, subjected to a trial run, and supported by photographs, video and a report on the State portal. The inspection is to be completed promptly and, ideally, within 60 days of installation.

Chapter 18 of the Guidelines provides a separate quality-control framework based on regular field surveillance, random sampling, triplicate sealed samples, mandatory batch identification, testing through competent, approved laboratories and consideration of conformity or non-conformity by the competent authority / SLSC.

The 100% field-verification obligation is the base scope of this procurement. Random material sampling and any enhanced hydraulic test are additional quality-assurance activities and shall not substitute the field visit and trial run at every installation.

5. Objectives

- Independently verify every completed and eligible MI installation assigned by the BHDS.
- Confirm that the installed system broadly corresponds with the sanctioned design, bill of quantities, invoice and system category.
- Verify the material supplied, visible BIS marking and batch / manufacturing identification wherever applicable.
- Conduct and document a functional trial run at every site.
- Create geo-tagged, time-stamped and auditable evidence for payment processing, rectification, supplier-performance review and scheme monitoring.
- Support periodic random material sampling, secure chain of custody and laboratory testing under the quality-control provisions of PDMC.
- Maintain a lean cost structure through output-based rates, cluster-wise routing and only two evaluated key personnel.



5. Service Components and Scope

Code	Service	Scope
A1	100% Basic Field Verification	Inspection and physical verification at every assigned farmer field, material check, trial run, photographs, video, findings and portal-ready report.
A2	Re-inspection	Verification of rectification or completion when ordered by the BHDS. Revisit caused by an Agency error shall not be separately payable.
A3	Enhanced Technical Check	Risk-based detailed pressure, discharge or performance checks on the quantity specified in the GeM Bid Document, ordinarily limited to a defined sub-sample and not replacing A1.
A4	Approved Abortive Visit	Documented visit where inspection cannot be completed for reasons outside the Agency's control, payable only where included as a service line and approved by the BHDS.
B1	Joint Material Sampling and Chain of Custody	Technical support for random selection, triplicate sampling, coding, sealing, documentation, packing and dispatch in the presence of required representatives.
B2	Laboratory Testing	Testing of selected components through an approved laboratory against the applicable current BIS standard and issuance of a valid signed report.

The bidder shall quote all service lines configured in the GeM Bid. The successful bidder shall remain responsible for the integrated delivery of the ordered scope. Ownership of a laboratory is not mandatory; laboratory services may be obtained through an approved association or service arrangement, subject to conflict-of-interest requirements.



7. Coverage, Case Allocation and Inspection List

- 7.1. The BHDS shall release the complete list of completed and eligible installations during the contract period, and the Agency shall physically inspect 100% of that List. Statistical sampling shall not replace this obligation.
- 7.2. The BHDS shall release cases in district, block or cluster-wise batches with available application, sanction, supplier, design, invoice, completion and beneficiary-contact data. The Agency shall plan routes to minimise avoidable travel and cost.
- 7.3. The Agency shall have no discretion to exclude or substitute a case. A case may be removed, deferred or substituted only through written or portal-based instruction of the BHDS.
- 7.4. An installation shall be treated as ready for inspection only after completion is recorded and the water source, pump and beneficiary access are reasonably available. If trial run cannot be completed, the Agency shall record the reason and classify the case as pending rather than satisfactory.
- 7.5. Cases affected by flood, severe waterlogging, law-and-order restrictions, court orders, inaccessible terrain, portal outage or other documented external causes may be rescheduled without delay deduction.
- 7.6. The estimated quantity in the GeM Bid is for price evaluation and administrative planning. Payment shall be based on actual accepted outputs, subject to GeM quantity-variation provisions and the Service Order.

8. Minimum Eligibility of Bidder

Criterion	Minimum Requirement
Legal status	A company, LLP, partnership, society, trust, cooperative, PSU, government/autonomous organisation, university or other legally competent entity registered in India.
Statutory registrations	PAN, GST registration where applicable, bank details and GeM registration.

Criterion	Minimum Requirement
Relevant capability	At least one completed or substantially completed assignment during the preceding seven years involving MI / irrigation, engineering inspection, agricultural or rural asset verification, quality inspection, beneficiary verification, field survey or comparable public-programme monitoring.
Financial eligibility	As specified in the portal-generated GeM Bid Document. Valid MSE, Startup or other policy relaxations shall apply to the extent enabled under prevailing Bihar Purchase Preference Policy, 2024.
Integrity	The bidder shall not be blacklisted or debarred on the bid due date and shall disclose material proceedings involving fraud, corruption or professional misconduct.
Independence	The bidder shall not be an MI manufacturer, supplier or authorised dealer whose systems are to be inspected under the contract, and shall not inspect any work in which it has a commercial interest.
Laboratory access	The bidder shall provide either an eligible laboratory consent / association document with the bid or an undertaking to furnish the same within seven working days of award and before the first sampling order.
Inspection accreditation	ISO/IEC 17020 accreditation may be furnished where available but is not a mandatory eligibility condition for this first statewide implementation.

Consortium or joint venture is not permitted unless expressly enabled in the GeM Bid Document. An approved laboratory association and engagement of trained field personnel under the Agency's direct supervision shall not, by themselves, constitute a consortium.

9. Manpower and Deployment Model

Only two key positions shall be evaluated at bid stage. No district office, dedicated vehicle fleet or fixed district-wise staffing pattern is prescribed. The Agency shall, however, deploy sufficient trained field personnel to complete 100% coverage and all ordered quality-control activities within the service levels.

Position	Qualification and Role
State Coordinator - 1	Bachelor's degree in Agricultural Engineering preferred. A degree in Agricultural Engineering, Irrigation / Water Resources, Civil or Mechanical Engineering, Agriculture or a closely allied discipline is acceptable. Minimum five years of relevant experience, including coordination of irrigation, agricultural infrastructure, inspection or field-monitoring assignments. Responsible for State-level coordination, deployment planning, report validation, dashboard submission and quality-control oversight.
Field-Level Engineer - 1	Diploma or degree in Agricultural Engineering preferred. Diploma / degree in Agricultural, Irrigation, Civil or Mechanical Engineering, or B.Sc. Agriculture with relevant MI experience is acceptable. Minimum two years of relevant field experience. Responsible for technical supervision, field protocols, training and review of inspection outputs.
Additional Field Personnel	No fixed minimum number at bid stage. The Agency shall mobilise personnel in proportion to the allocated workload. Agricultural Engineering qualifications are preferred; allied engineering or agriculture qualifications may be accepted where supported by MI / irrigation experience and documented pre-deployment training.

- All personnel shall carry photo identification and an authorisation issued by the Agency.
- The list, qualification and district allocation of field personnel shall be submitted before deployment and updated whenever changed.
- The Agency shall conduct a documented orientation on PDMC requirements, MI components, trial-run protocol, evidence capture, beneficiary interaction, confidentiality and fraud indicators.
- Replacement of either key person requires prior approval and an equal or better profile.
- Travel, communication, insurance, lodging, local mobilisation and incidental costs shall be included in the quoted unit rates.

1 Minimum Field Equipment

The Agency shall provide each active field team with a geo-tag capable smartphone or portal device, measuring tape, verified or calibrated pressure gauge with suitable adapters, simple discharge-collection and timing tools, and authorised labels, seals and packaging materials for sampling. Specialised hydraulic laboratory equipment is not required for every basic visit.

10. 100% Field Verification Protocol

Activity	Minimum Check at Every Installation
1. Pre-visit review	Review the application / sanction ID, approved system category and BOQ, area, crop, supplier, invoice / e-invoice, completion record, QR information and geo-coordinates provided by the BHDS.
2. Beneficiary and site	Visit the assigned farmer field; verify the beneficiary or authorised representative, installation location and unique case identity. Aadhaar and bank details shall not be photographed or displayed in reports.
3. Area and crop	Record crop, approximate spacing and installed area. Use portal mapping or basic measurement where available. A cadastral or legal boundary survey is not part of the basic visit.
4. System identity	Record drip / sprinkler category, manufacturer, visible model / pipe class, QR code, BIS marking, batch / manufacturing mark and serial identification wherever applicable.
5. Material supplied	Compare major installed components with the sanctioned BOQ and invoice. Repetitive items may be verified through reasonable count / representative checks, but missing major components, brand mismatch and material substitution shall be specifically recorded.
6. Installation quality	Check head unit, filter, fertigation unit where sanctioned, valves, mains, sub-mains, laterals / emitting pipe, emitters / sprinklers, risers and fittings for placement, jointing, leakage, visible damage, clogging, flushing arrangement and basic workmanship.





Activity	Minimum Check at Every Installation
7. Trial run	Operate the system using the available water source and pump. Capture a continuous trial-run video. Record whether the system is functional, whether water reaches representative tail points and whether material leakage or gross non-uniformity is visible.
8. Basic pressure / discharge observation	Take head and representative tail pressure readings where connection is safely accessible without dismantling the system. Where a reading is not technically feasible, record the reason. A full hydraulic-uniformity test is not required at every site.
9. Farmer hand-over	Record whether the beneficiary received operating guidance, warranty / user manual, supplier service details and complaint-channel information, and whether the system is being used.
10. Evidence and result	Capture the prescribed geo-tagged and time-stamped photographs, video and findings; obtain beneficiary acknowledgement; classify the result and upload the complete report.

10.1 Mandatory Digital Evidence per Installation

- One geo-tagged photograph showing the beneficiary / authorised representative with the field, subject to consent.
- One clear photograph of the head unit and filtration arrangement.
- One photograph showing representative main / sub-main / lateral or sprinkler network.
- One photograph and one short video showing the system operating at a representative tail point or sprinkler zone.
- Photographs of any material deficiency, missing component, mismatch, leakage, damage or suspected irregularity.
- Inspection date, time, coordinates, inspector identity, trial-run result and beneficiary acknowledgement.

10.2 Enhanced Technical Check

The BHDS may order a deeper technical assessment on the risk-based quantity specified in the GeM Bid Document, ordinarily up to 10% of the annual installation list during the first year. It may include multiple pressure and discharge observations, emitter discharge variation, sprinkler distribution checks, verification of a larger component sample and a technical note. This service is additional to, and does not reduce, 100% basic field verification.

11. Inspection Outcomes and Rectification

Outcome	Condition	Agency Action
Satisfactory	System is available, material broadly matches approved configuration, trial run is successful and no material deficiency is observed.	Report may be accepted, subject to BHDS scrutiny.
Satisfactory with Minor Observation	System is functional; minor non-critical issue in documentation, housekeeping, labelling or installation is observed.	Record observation and corrective advice. Revisit only if ordered.
Rectification Required	Repairable defect such as leakage, missing minor component, partial non-functionality, inadequate flushing, training or documentation gap.	Issue defect details. Re-inspect after rectification if ordered.
Major Non-conformity	Major material mismatch, significant missing component, non-functional system, major departure from design or suspected sub-standard material.	Alert BHDS promptly; preserve evidence; recommend hold, sampling or further action.
Not Installed / Suspected Irregularity	System absent, site not found, beneficiary denial, duplicate evidence, false location or serious identity inconsistency.	Alert BHDS within 24 hours; do not make a final finding of fraud.
Pending Trial Run / Access	Inspection could not be completed because water, pump, electricity, beneficiary access or another necessary condition was unavailable.	Record reason and evidence; revisit when ordered.

The Agency shall not approve subsidy, impose supplier penalty, order recovery, blacklist any entity or determine criminal liability. These decisions remain exclusively with the competent authority after due process.

12. Material Quality Control and Laboratory Testing

12.1 Surveillance and Sample Selection

Material-quality surveillance shall be carried out on random and risk-based samples selected or approved by the BHDS / competent authority / SLSC. The plan may consider manufacturer, component, BIS licence, batch, geography, complaints, abnormal failure, repeated rectification and other risk indicators. Sampling may be undertaken from beneficiary fields within three years of installation and from the manufacturer's supply chain after dispatch from the manufacturing unit.

One surveillance cycle per operative year shall be treated as the general norm unless the competent authority / SLSC directs more or fewer inspections based on performance and risk. The system at a sampled field should be functional at the time of surveillance.

12.2 Joint Triplicate Sampling and Chain of Custody

12.2.1. The BHDS shall nominate the State nodal official / joint inspection team and issue or approve the sample list.

12.2.2. The Agency shall coordinate the visit and give reasonable notice to the manufacturer / supplier representative.

12.2.3. Samples shall normally be drawn jointly in the presence of the joint inspection team, State nodal official and company representative.

12.2.4. Three identical sets shall be properly labelled, coded, sealed and signed. One set shall be dispatched to the approved laboratory, one retained in the custody of the State nodal officer and one handed to the manufacturer / authorised representative.

12.2.5. Batch number or manufacturing identification is mandatory. Sample code, seal number, source, component, standard, quantity, date, coordinates and witness details shall be recorded.



12.2.6. If the company representative does not attend after documented notice, the Agency shall report the absence and follow the written direction of the BHDS regarding rescheduling or witnessed sampling.

12.2.7. The laboratory shall acknowledge receipt, condition of seals and sample quantity. Broken seals, inadequate quantity or chain-of-custody deviation shall be reported immediately.

12.3 Approved Laboratory

- CIPET or BIS laboratory; an eligible ICAR institute or State Agricultural University laboratory; another government / autonomous product-testing laboratory approved by the competent authority / SLSC; or a NABL-accredited laboratory having the relevant current test and standard in its scope.
- The laboratory's approval, accreditation and test scope shall be valid on the date of testing.
- The laboratory shall be independent of the manufacturer / supplier whose material is tested and shall disclose any actual or potential conflict.
- The latest applicable BIS standard, product manual and amendment shall be followed unless the BHDS issues a written direction consistent with the scheme guidelines.

12.4 Minimum Sample Quantities and Tests

Component	Reference Standard	Minimum Test Sample	Indicative Tests
Laterals	IS 12786	15 metres	Identification / composition, thickness, pressure, dimensions and other applicable tests in the approved laboratory scope.
Emitting Pipe	IS 13488	50 metres	Identification / composition, thickness, pressure, dimensions, flow-related tests and other applicable tests.
HDPE Pipe	IS 17425:2020 or latest applicable revision	1 metre	Identification / composition, thickness, pressure and dimensions.
UPVC Pipe	IS 4985 or latest applicable revision	1 metre	Identification / composition, thickness, pressure and dimensions.
Emitters / Drippers	IS 13487	50 numbers	Identification / composition, flow rate and other applicable performance tests.

Component	Reference Standard	Minimum Test Sample	Indicative Tests
Other Components	Applicable current BIS standard	As prescribed by the approved laboratory and accepted by the BHDS	Tests relevant to conformity, safety and performance.

The three sample sets shall be identical and sufficient to permit testing or re-testing. Where a laboratory requires a higher quantity for the applicable method, the Agency shall obtain written confirmation before sample collection.

12.5 Laboratory Report and Non-conformity

The laboratory report shall identify the sample code, seal condition, component, batch, applicable standard and clause-wise test results, and shall state conformity or non-conformity. The report shall be signed or digitally authenticated by the authorised laboratory signatory.

The Agency shall submit the report and complete chain-of-custody record to the State nodal officer. Scrutiny of the report, hearing of affected parties and action against a manufacturer, dealer or beneficiary shall be undertaken by the competent authority / SLSC in accordance with the scheme guidelines and principles of natural justice.

13. Digital Evidence, MIS and Data Protection

- All field visits, findings, photographs, videos, sample records and reports shall be captured in the State portal, application or other format specified by the BHDS.
- The Agency shall not fabricate, reuse, stage or alter evidence. Original metadata shall be preserved.
- Personally identifiable information shall be collected only to the minimum extent required. Aadhaar, bank details and personal documents shall not appear in public dashboards or routine photographs.
- All data, reports, photographs, videos, databases, templates and derived information created under the contract shall be the property of the Government of Bihar.
- Data shall be stored only on systems approved by the BHDS, shall not be used for commercial purposes and shall not be disclosed without written authority.
- Records shall be retained for seven years or for a longer period directed under the scheme, audit or law.

14. Deliverables and Service Levels

Deliverable	Timeline	Minimum Output
Mobilisation and inception plan	Within 7 working days of Service Order	District / cluster deployment, key contacts, training and reporting workflow.
Basic field inspection	Within 10 working days of case allocation and, subject to timely allocation, within 60 days of installation	Completed site visit, trial run, evidence and outcome.
Field report upload	Within 2 working days of visit	Complete portal-ready report and media.
Critical irregularity alert	Within 24 hours of observation	Evidence-backed alert for non-installation, duplicate evidence or major non-conformity.
Re-inspection	Within 7 working days of allocation	Updated rectification status and evidence.
Joint sampling	Within 5 working days of approved sampling order or agreed programme	Triplicate samples and complete chain-of-custody documentation.
Dispatch to laboratory	Within 3 working days of sampling	Secure packing, tracking and laboratory acknowledgement.
Laboratory report	Normally within 30 calendar days of laboratory receipt, unless the prescribed test cycle requires longer	Signed report with clause-wise results and conformity status.
Monthly dashboard and invoice support	By the 5th working day of the following month	Cases allocated, visited, accepted, pending, defects, re-inspections, sampling and laboratory status.

Timelines shall be extended for documented delay attributable to incomplete BHDS data, beneficiary or supplier non-availability, unavailable water / power for trial run, flood, severe weather, law-and-order restriction, portal outage, laboratory test-cycle requirement or another cause accepted by the BHDS.

15. Responsibilities of the BHDS

- Provide and release the complete list of completed and eligible installations in workable district / block batches.



- Provide available application, sanction, design / BOQ, supplier, invoice, completion, QR and contact information.
- Facilitate district-level coordination through DHOs, BHOs or other nominated officials.
- Provide or enable portal access, reporting formats and clarification of field exceptions.
- Nominate State officials / joint teams for material sampling and approve laboratories.
- Ensure necessary notice and facilitation for manufacturer / supplier participation in joint sampling.
- Review reports, communicate acceptance or correction requirements, and take all payment, recovery, penalty, de-registration or prosecution decisions.

16. Pricing, Invoicing and Payment

The bidder shall quote unit rates through the GeM financial bid for the service lines and estimated quantities configured by the BHDS. Rates shall include manpower, travel, lodging, devices, instruments, software, data, seals, packing, courier, laboratory charges, insurance, overheads, profit and all taxes and duties as handled by the GeM price format.

Service Line	Payment Unit
A1 - Basic Field Verification	Per accepted installation report
A2 - Re-inspection	Per accepted re-inspection ordered after rectification
A3 - Enhanced Technical Check	Per accepted detailed technical report
A4 - Approved Abortive Visit	Per approved documented visit; payable only where configured in the GeM Bid
B1 - Joint Sampling and Chain of Custody	Per completed triplicate sample set accepted by the BHDS and laboratory
B2 - Laboratory Testing	Per accepted component / test package configured in the GeM Bid

- No fixed monthly fee shall be payable for the two key personnel, additional field staff, district deployment, office or vehicles.



- The Agency may submit monthly invoices for accepted outputs supported by the portal extract and required reports.
- Payment shall be released after BHDS acceptance in accordance with the GeM payment workflow and applicable deductions.
- A revisit caused solely by incomplete or incorrect Agency work shall be undertaken at no additional cost.
- A re-inspection required after supplier rectification is payable only when separately ordered under the relevant service line.
- No minimum quantity is guaranteed beyond actual eligible installations and quality-control orders issued under the contract.

17. Quality Assurance, Re-checks and Deductions

The BHDS may re-check up to 5% of accepted field reports through departmental officers, another agency or digital analytics. The purpose is to validate presence, material observations, trial-run status, geo-location and evidence integrity.

Event	Consequence
Correctable report deficiency	Agency shall correct within 3 working days. No deduction where corrected promptly and the field inspection was genuine.
Delay attributable to Agency	Deduction up to 0.5% per completed week of the value of the delayed affected batch, subject to a maximum of 5% of the relevant monthly invoice.
Material discrepancy in re-check	Where significant error exceeds 5% of the re-checked sample, the BHDS may require re-verification of the affected batch at Agency cost and may withhold payment pending correction.
Broken chain of custody / sampling error	Sampling or testing fee shall not be payable; re-sampling and re-testing attributable to the Agency shall be at its cost.



Event	Consequence
False, duplicate or fabricated inspection evidence	Affected output shall be rejected; payment shall be recovered where already released; show-cause, contract termination, debarment recommendation and legal action may follow.
Aggregate liquidated damages	Shall not exceed 10% of the contract value, excluding recovery for fraud, data breach, overpayment or actual loss.

No deduction shall be imposed without notice and reasonable opportunity to explain, except immediate rejection of an incomplete invoice or output. The BHDS may waive or reduce a deduction for documented external cause.

18. Contract Management and Personnel Replacement

- The Agency shall nominate a single authorised contract representative in addition to the State Coordinator, if different.
- The State Coordinator and Field-Level Engineer named in the accepted bid shall not be replaced without prior approval. Replacement shall have an equal or better profile.
- The Agency may adjust the number and location of non-key field personnel according to workload, while remaining responsible for quality and timelines.
- Subcontracting of the entire field-verification obligation is prohibited. Use of approved laboratory services and directly supervised field personnel is permitted.
- Quantity variation, extension, suspension and termination shall be governed by the GeM Bid, applicable GeM terms and written Service Orders.
- The BHDS may terminate for persistent delay, repeated material inaccuracy, conflict of interest, breach of confidentiality, evidence fabrication, insolvency or other material breach after due process.

19. Bid Submission Requirements

Sl. No.	Technical Bid Document
1	Authorisation of the signatory and legal-status documents.

Sl. No.	Technical Bid Document
2	PAN, GST and GeM registration details, as applicable.
3	Evidence of relevant experience with work order / agreement and completion or satisfactory-performance proof.
4	CV, qualification and availability declaration of the proposed State Coordinator.
5	CV, qualification and availability declaration of the proposed Field-Level Engineer.
6	Concise methodology covering 100% field coverage, batching, deployment, trial run, evidence capture, exception handling, re-inspection and material sampling.
7	Laboratory consent / association document or undertaking to furnish an eligible laboratory within seven working days of award.
8	Declaration of non-blacklisting, independence, conflict-of-interest disclosure and acceptance of audit.
9	Documents supporting MSE, Startup or other preference / exemption claimed through GeM.
10	Any additional document specifically requested in the portal-generated GeM Bid Document.

The technical bid shall not contain price information. Failure to quote a mandatory service line in the GeM financial bid may render the bid non-responsive.

20. Evaluation and Award

20.1. The BHDS shall examine bids for completeness, eligibility, responsiveness and compliance with mandatory technical requirements.

20.2. Clarification may be sought regarding an existing document but shall not permit creation of new eligibility after the bid due date, alteration of the technical proposal or change in price.

20.3. Technical evaluation shall be on a pass / fail basis against the GeM Bid, this RFP and the ATC. The BHDS may verify certificates, experience, personnel and laboratory information from the issuing authority.

20.4. Among technically qualified bidders, award shall be based on the lowest evaluated responsive total price for the estimated quantities configured in the GeM Bid, subject to price reasonableness, applicable preference policies and GeM procedures.

20.5. The successful bidder shall furnish performance security and execute or accept the GeM contract within the prescribed period. Failure may lead to action under GeM and applicable procurement rules.

21. Integrity, Confidentiality and Dispute Provisions

- The bidder and its personnel shall not solicit or accept any payment, hospitality, benefit or instruction from an MI manufacturer, dealer or beneficiary in relation to an inspection.
- All actual or potential conflicts shall be disclosed immediately. The BHDS may reassign affected cases or require replacement of personnel or laboratory.
- Inspection findings shall be confidential and shall be shared only through authorised channels.
- The Agency shall comply with applicable labour, tax, information-security, anti-corruption and other laws.
- Force majeure shall be dealt with under the prevailing GeM terms. The affected party shall promptly notify the other party and mitigate the impact.
- Disputes shall first be addressed through the GeM dispute-resolution mechanism and administrative escalation. Courts at Patna shall have jurisdiction, subject to applicable law and the GeM contract.

Submission through GeM constitutes unconditional acceptance of the GeM Bid Document, applicable GeM terms, this RFP, the BHDS-uploaded ATC and all corrigenda. A conflicting bidder condition may render the bid non-responsive.



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BIHAR HORTICULTURE DEVELOPMENT SOCIETY

ADDITIONAL TERMS AND CONDITIONS

100% Third-Party Inspection / Physical Verification and Quality Control of Micro- Irrigation Systems

Per Drop More Crop (PDMC), FY 2026-27

Procuring Entity	Bihar Horticulture Development Society, Directorate of Horticulture, Agriculture Department, Government of Bihar
Procurement Platform	Government e-Marketplace (GeM)
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1. Applicability and Order of Precedence

These Additional Terms and Conditions apply to the GeM Bid for Services issued by BHDS / Directorate of Horticulture for the subject assignment. They supplement the portal-generated GeM Bid Document, applicable GeM General Terms and Conditions, Special Terms and Conditions, Service Level Agreement, the BHDS's RFP / Scope of Work and all corrigenda.

The prevailing GeM framework and portal-generated bid conditions shall govern where a mandatory GeM provision conflicts with this document. The bidder's own general conditions shall not apply unless expressly accepted by the BHDS through GeM.

2. Mandatory Service Coverage

The BHDS shall assign the complete universe of completed and eligible MI installations, and the successful Agency shall conduct third-party inspection and physical verification of all the installations. Every farmer field shall be visited. The installed material shall be checked, a trial run shall be conducted, and photographs, video and a case-wise report shall be uploaded in the State portal or other system specified by the BHDS.

Random material sampling and enhanced hydraulic / performance checks are additional quality-assurance activities. They shall not replace the mandatory basic field verification at every installation.

Separately sanctioned / QR-coded MI systems shall be treated as separate installations for inspection and payment.

3. Contract Model and Service Lines

Code	Service Line	Payment Basis
A1	Basic Field Verification	Per accepted inspection of an assigned installation, including material check, trial run and digital report.
A2	Re-inspection	Per accepted revisit ordered after rectification. Revisit required because of Agency error is not payable.
A3	Enhanced Technical Check	Per accepted deeper technical assessment on the risk-based quantity specified in the GeM Bid, ordinarily up to 10% in the first year.

Code	Service Line	Payment Basis
A4	Approved Abortive Visit	Per documented and BHDS-approved visit that could not be completed for an external reason, only where configured in the GeM Bid.
B1	Joint Sampling and Chain of Custody	Per completed triplicate sample set with coding, sealing, documentation and dispatch.
B2	Laboratory Testing	Per accepted component / test package through an approved laboratory.

The contract is output-based. No separate reimbursement shall be made for office, vehicles, manpower-months, devices, travel, lodging, software, seals, courier, laboratory coordination, insurance or administration.

4. Bidder Eligibility and Independence

- The bidder shall be a legally competent entity registered in India and shall possess PAN, GST registration where applicable, bank details and valid GeM registration.
- The bidder shall demonstrate at least one completed or substantially completed assignment during the preceding seven years involving MI / irrigation, engineering inspection, agricultural or rural asset verification, quality inspection, beneficiary verification, field survey or comparable public-programme monitoring.
- Financial eligibility, bid security and exemptions shall be as specified in the portal-generated GeM Bid Document. MSE, Startup and other benefits shall apply only to the extent permitted and enabled under prevailing rules.
- The bidder shall not be blacklisted or debarred on the bid due date.
- The bidder shall not be an MI manufacturer, supplier or authorised dealer whose systems are to be inspected and shall disclose every actual or potential conflict of interest.
- ISO/IEC 17020 accreditation may be furnished where available but shall not be a mandatory eligibility condition unless expressly stated in the portal-generated GeM Bid Document.

- Ownership of a laboratory is not mandatory. An approved laboratory association may be used, with the prime bidder remaining fully responsible for service delivery.

5. Lean Manpower and Deployment

Position	Requirement
State Coordinator - 1	Agricultural Engineering degree preferred; allied engineering / agriculture degree acceptable. Minimum five years of relevant experience. Responsible for coordination, deployment, report validation and dashboard submission.
Field-Level Engineer - 1	Agricultural Engineering diploma / degree preferred; allied engineering / agriculture qualification acceptable with relevant MI experience. Minimum two years of relevant field experience. Responsible for technical supervision and training.
Additional Field Personnel	No fixed minimum at bid stage. The Agency shall mobilise sufficient trained personnel to complete 100% field coverage. Agricultural Engineering qualifications are preferred; allied qualifications may be accepted with MI / irrigation experience and documented training.

No district office, dedicated vehicle fleet or district-wise fixed staff structure is mandatory. All field personnel shall be identified, trained, authorised and supervised by the two key personnel. The Agency shall include all deployment costs in its unit rates.

6. Field Verification at Every Farmer Field

Field Check	Minimum Requirement at Every Installation
Case review	Application / sanction ID, system type, design / BOQ, area, crop, supplier, invoice / e-invoice, completion, QR and geo-data.
Beneficiary and location	Verify assigned field and beneficiary / authorised representative; protect Aadhaar and bank information.
System and material	Record system type, manufacturer, visible BIS marking, batch / manufacturing mark, QR and major components; compare with approved BOQ and invoice.

Field Check	Minimum Requirement at Every Installation
Installation quality	Check head unit, filter, fertigation unit where sanctioned, valves, pipes, laterals / emitting pipe, emitters / sprinklers, risers, fittings, leakage, damage, clogging and flushing arrangement.
Trial run	Operate the system with the available water source and pump; confirm basic functionality and water delivery to representative tail points; capture continuous video.
Basic technical observation	Record accessible head and representative tail pressure and gross discharge / spray behaviour. Full hydraulic-uniformity testing is not required at every site.
Farmer hand-over	Record training, warranty / user manual, service details, complaint channel and current use.
Evidence and outcome	Upload geo-tagged photographs, trial-run video, findings, beneficiary acknowledgement and outcome category.

At least four geo-tagged and time-stamped photographs and one short trial-run video shall be captured per installation, including the beneficiary / field, head unit, representative network and operating tail point or sprinkler zone. Defects and suspected irregularities shall be separately photographed.

The Agency shall classify each case as Satisfactory; Satisfactory with Minor Observation; Rectification Required; Major Non-conformity; Not Installed / Suspected Irregularity; or Pending Trial Run / Access. The BHDS alone shall decide subsidy release, recovery, penalty, de-registration or legal action.

7. Random Material Sampling and Laboratory Testing

Material-quality surveillance shall be based on random and risk-based samples approved by the BHDS / competent authority / SLSC. The Agency shall not select samples independently. Sampling may be undertaken from beneficiary fields within three years of installation and from the supply chain after dispatch from the manufacturing unit.

- Samples shall normally be collected jointly by the nominated joint inspection team, State nodal official and company representative.



- Samples shall be collected in three identical sets and properly labelled, coded, sealed and signed. One set shall go to the approved laboratory, one shall remain with the State nodal officer and one shall be provided to the manufacturer / authorised representative.
- Batch number or manufacturing identification is mandatory. Complete chain-of-custody, seal, location, witness, dispatch and laboratory-receipt records shall be maintained.
- If the company representative is absent after documented notice, the Agency shall follow the written direction of the BHDS regarding rescheduling or witnessed sampling.
- Testing shall be undertaken by CIPET, BIS laboratory, an eligible ICAR institute or State Agricultural University laboratory, another government / autonomous laboratory approved by the competent authority / SLSC, or a NABL-accredited laboratory having the relevant current test scope.
- The laboratory and Agency shall be independent of the manufacturer / supplier whose sample is tested.

Component	Reference Standard	Minimum Test Sample
Laterals	IS 12786	15 metres
Emitting Pipe	IS 13488	50 metres
HDPE Pipe	IS 17425:2020 or latest applicable revision	1 metre
UPVC Pipe	IS 4985 or latest applicable revision	1 metre
Emitters / Drippers	IS 13487	50 numbers
Other Components	Applicable current BIS standard	Quantity prescribed by approved laboratory and accepted by BHDS

Tests shall include the applicable identification / composition, thickness, dimensions, pressure, flow and performance checks within the approved laboratory's scope. Three sample sets shall be identical and sufficient for testing or re-testing.

8. Evidence, Reporting and Service Levels

Deliverable	Service Level
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Deliverable	Service Level
Mobilisation plan	Within 7 working days of Service Order
Basic field inspection	Within 10 working days of allocation and, subject to timely allocation, within 60 days of installation
Report upload	Within 2 working days of visit
Critical irregularity alert	Within 24 hours
Re-inspection	Within 7 working days of allocation
Joint sampling	Within 5 working days of approved order or agreed programme
Laboratory dispatch	Within 3 working days of sampling
Laboratory report	Normally within 30 calendar days of laboratory receipt, unless the test cycle requires longer
Monthly dashboard	By the 5th working day of the following month

Delay caused by incomplete BHDS data, unavailable beneficiary / supplier, unavailable water or electricity for trial run, flood, severe weather, law-and-order restriction, portal outage, laboratory test-cycle requirement or another documented external cause accepted by the BHDS shall not attract deduction.

9. Pricing and Payment

- The bidder shall quote every mandatory service line configured in the GeM financial bid. Price information shall not be included in the technical bid.
- Unit rates shall be all-inclusive in accordance with the GeM price format.
- Payment shall be based on actual accepted outputs and the GeM payment workflow. No minimum quantity is guaranteed beyond actual eligible installations and orders issued.
- Monthly invoices may be submitted with the accepted portal extract and supporting reports.
- A revisit caused by Agency error shall be completed without additional payment. Re-inspection after supplier rectification is payable only when separately ordered.

- An approved abortive visit is payable only if the corresponding service line is included in the GeM Bid and the reason is supported by field evidence and BHDS approval.

10. BHDS Re-checks, Corrections and Deductions

Event	Consequence
Report deficiency	Correct within 3 working days; no deduction where promptly corrected and the field visit was genuine.
Agency-attributable delay	Up to 0.5% per completed week of the delayed affected-batch value, capped at 5% of the relevant monthly invoice.
Significant discrepancy	If significant error exceeds 5% of the BHDS's re-check sample, re-verification of the affected batch may be ordered at Agency cost.
Sampling / chain-of-custody failure	Affected fee is not payable; Agency-attributable re-sampling or re-testing shall be at Agency cost.
Fabricated or duplicate evidence	Output rejection, recovery of payment, show-cause, possible termination, debarment recommendation and legal action.
Overall liquidated damages	Maximum 10% of contract value, excluding fraud, data breach, overpayment recovery and actual loss.

The BHDS may re-check up to 5% of accepted field reports. Except for invoice rejection or urgent evidence preservation, adverse action shall follow notice and reasonable opportunity to explain.

11. Personnel, Laboratory and Subcontracting

- Replacement of the State Coordinator or Field-Level Engineer requires prior approval and an equal or better profile.
- The number and location of non-key field personnel may be adjusted by the Agency according to workload, subject to qualification, training and disclosure requirements.
- The entire field-verification obligation shall not be subcontracted. Directly supervised field personnel and approved laboratory services are permitted.



- A laboratory association submitted after award shall be approved before the first sample is drawn. The BHDS may reject a laboratory with inadequate scope, expired approval or conflict of interest.
- The prime bidder remains liable for every act, omission, delay and report of its personnel and laboratory service provider.

12. GeM-Specific Conditions

- Bid number, bid dates, bid validity, estimated quantity, estimated value, bid security, performance security, contract period, reverse auction and preference policies shall be as configured in the portal-generated GeM Bid Document.
- Technical bids shall be evaluated for mandatory compliance on a pass / fail basis. Among technically responsive bidders, award shall be based on the lowest evaluated responsive total price, subject to GeM procedures and price reasonableness.
- The bidder shall upload the legal documents, relevant-experience evidence, key-personnel CVs, methodology, laboratory document / undertaking, conflict declaration and all documents requested in the GeM Bid.
- All mandatory service lines shall be quoted. Conditional price bids, offline price schedules and price information in the technical cover may be rejected.
- Quantity variation, extension, suspension, termination, invoicing, payment and dispute resolution shall be governed by the GeM contract and written Service Orders.

13. Data, Integrity and Audit

- All reports, photographs, videos, sample records, dashboards and derived data shall be owned by the Government of Bihar.
- The Agency shall preserve original metadata, protect personal data, mask Aadhaar and bank information and use data only for the contract.
- No inspector or laboratory shall accept any payment, benefit, hospitality or instruction from an MI manufacturer, dealer or beneficiary.



- The BHDS, Government of India, statutory auditor, CAG or another authorised agency may examine records and verify field work during and after the contract.
- Records shall be retained for seven years or for a longer period directed under the scheme, audit or law.
- The Agency shall immediately report attempted interference, bribery, evidence manipulation or conflict of interest.

14. Acceptance

Submission of the bid through GeM shall constitute unconditional acceptance of these Additional Terms and Conditions, the RFP / Scope of Work, portal-generated GeM Bid Document, applicable GeM terms and all corrigenda. Any bidder condition inconsistent with the procurement documents may render the bid non-responsive.

