

**EOI FOR THE SELECTION OF LOCAL ACCREDITED ANALYTICAL
LABORATORIES TO DECLARE AS FERTILIZER REFERENCE LABORATORIES**

MINISTRY OF AGRICULTURE, LIVESTOCK, LANDS AND IRRIGATION

01) Background

- 1.1 The National Fertilizer Secretariat (NFS) has been established according to the Act No 68 of 1988 (Fertilizer Regulation Act) to perform the following activities to ensure best quality fertilizer is available throughout the country,
 - a) Control Quality, Distribution, Marketing of Fertilizers
 - b) Regulate the imported fertilizer and storing
 - c) Granting the licenses for manufacturing and mixing of fertilizer to fertilizer manufacturers
- 1.2 Director NFS has been granted authority to select analytical laboratories to get fertilizer analyzed when and where, Director decides, according to the clause 17 of the Act no 68 of 1988.
- 1.3 Accordingly a Cabinet memorandum has been submitted on 20th Feb 2020 to obtain approval of the Cabinet of ministers to call EOI 's from the analytical laboratories to select suitable analytical laboratories list out as suitable for the purpose stipulated in above clause 1.1 and 1.2, it has been approved by the cabinet of ministers at their meeting held on 14th march 2020 and communicated as confirmed through the letter no අ.ම.ප/20 /0483/217/023 dated 19th March 2020 by the Cabinet secretary S. Amarasekara.
- 1.4 Suitable accredited analytical laboratories are to be selected by calling EOI to perform fertilizer testing purposes.

02) Scope

Selection of suitable local accredited analytical laboratories would

- (a) Enhance reliability of test results and adherence to the international laboratory practices.
- (b) Result in greater availability of competent laboratories and proficient competent personnel.
- (c) Allows uniformity in protocols and procedures across the laboratory network and prices for the same tests.
- (d) Reduces mitigations among the stake holders.
- (e) Ensure timely delivery of results as per the schedule stipulated in the EOI.

03) Eligibility criteria.

Should be an accredited analytical laboratory from an accreditation body which has recognition from International Laboratory Accreditation Cooperation (ILAC MRA) or/and accreditation from the Sri Lanka Accreditation Board (SLAB) for the scope of performing Chemical and Microbiology testing on product category of fertilizer based on ISO, SLS or any other international or laboratory developed test method appearing in the list. To prove the eligibility, documentary evidences should be given / provided for fulfilling each condition as part of application

- 3.1 Certificate and scope of ISO / IEC 17025:2017 accreditation
- 3.2 Notification / recognition by other regulatory agencies will attract additional weightage during evaluation.
- 3.3 Should have technically qualified and well experienced in house manpower.
- 3.4 Should have sufficient in house infrastructure and laboratory equipment to carry out the tests according to the test method.
- 3.5 May have strong research background as evidenced by publications in peer reviewed journals in the fertilizer area will be an added advantage.
- 3.6 Should have experience of conducting hands on training facility either in – house or at a third party premises.

04) The applicant should be the head of the institution / laboratory / organization or a duly authorized representative for which a certificate of authority shall be submitted. All certificates and documents (including any clarification sought and any subsequent correspondence) submitted thereby, furnished and signed by the authorized representative.

05) Documents to accompany

- 5.1 The application shall accompany the EOI along with the necessary Supporting document.
- 5.2 Every sheet and all forms shall be complete in all respects and duly numbered. The power of Attorney supporting / authorizing of the signatory shall be enclosed with the offer. Any / all correction made in the proposal shall be duly authorizing by the signature of the authorized signatory.

06) Availability of EOI and Bid fee

6.1 The EOI can be downloaded free of charge from the following web site,
(<https://www.agrimin.gov.lk>)

If hard copy is required, it can be taken from Procurement Division (Admin III) of Ministry of Agriculture, Livestock, Lands and Irrigation, 80/5, “Govijana Mandiraya”, Rajamalwatte Lane, Battaramulla.

6.2 Duly filled EOI application should accompany with refundable fee of Rs. 25000 (in cash deposit in favor of the Secretary) to Secretary, Ministry of Agriculture, Livestock, Lands and Irrigation, 80/5, “Govijana Mandiraya”, Rajamalwatte Lane, Battaramulla.

07) Submission of proposal

The proposal completed in all respect should be submitted in sealed envelope address to the “Chairman, Consultancy Procurement Committee, 80/5, Govijana Mandiraya, Rajamalwatta Lane, Battaramulla”. Please superscript as “EOI for selection of Analytical Laboratories for Fertilizer Analysis” in the top left Corner of the envelop on or before 2.00 PM, 26.03.2025

08) Amendments to EOI

Any clarification or amendment is feasible only before 21.03.2025

09) Evaluation

Selection of the laboratories will be done by the Consultancy Procurement Committee of Ministry of Agriculture, Livestock, Lands and Irrigation according to the procurement guidelines.

10) Technical Evaluation /Field Visit

The evaluation committee along with NFS officials may visit the facilities to evaluate and / or ask applicant to make a presentation at the Ministry of Agriculture, Livestock, Lands and Irrigation according to the procurement guidelines.

11) Rejection of EOI (as per the Government Procurement Guidelines, 2007).

12) Disclaimer (as per the Government Procurement Guidelines, 2007).

Form 02: Price proposal**01. Inorganic Fertilizers**

S/N	PRODUCT(S)/ MATERIAL OF TEST	PARAMETERS TO BE TESTED	SLS SPECIFICATION	SPECIFY THE TEST METHOD / STANDARD AGAINST WHICH TEST ARE PERFORMED	RANGE OF TESTING / LIMITS OF DETECTION	TIME WOULD BETAKEN TO ISSUE ANALYZE RESULTS	PRICE (WITHOUT VAT)
1	MAGNESIUM SULPHATE HEPTAHYDRATE (COMMERCIAL EPSOM SALT)	1. Mg Content as (MgO) % by mass, 2. Chloride content (as Cl) %, by mass 3. Matter insoluble in water %, by mass 4. Mineral Acid Soluble Sulphate (as SO ₃) % by mass 5. Moisture content % by mass	SLS 1105: 1995				
2	AMMNOIUM PHOSPHATES	1. Total Nitrogen in ammoniacal form % by mass 2. Total Phosphate (as P ₂ O ₅) % by mass, 3. Water Soluble Phosphate (as P ₂ O ₅) % by mass, 4. Moisture % by mass, 5. Particle size % by mass 6. Free phosphoric acid % by mass 7. Potentially toxic elements such as (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm)	SLS 1131: 2021				
3	MAGNESIUM SULPHATE MONOHYDRATE	1. Mg Content (as MgO) % by mass, 2. Ca content (as CaO) % by mass, 3. Water solubility % by mass, 4. Mineral acid soluble sulphate (as SO ₃) % by mass, 5. Moisture % by mass, 6. Particle Size % by mass, 7. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm)	SLS 1104: 2014				
4	SINGLE SUPER PHOSPHATE	1. Moisture % 2. Total Phosphates (as P ₂ O ₅) %, 3. Water Soluble Phosphates of the total phosphates as P ₂ O ₅ %, 4. Free Phosphoric Acid (as P ₂ O ₅) % by mass, 5. Moisture % by mass, 6. Particle Size % by mass 7. Cd Content (ppm)	SLS-1318: 2007				

5	TRIPLE SUPER PHOSPHATE	1. Total P (as P ₂ O ₅), % by mass, 2. Water soluble P of the total P (as P ₂ O ₅) %by mass, 3. Free Phosphoric acid (as P ₂ O ₅) % by mass, 4. Moisture % by mass 5. Particle Size % by mass 6. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm)	SLS 812: 2014				
6	UREA-GRANULAR	1. Total Nitrogen as N% by mass, 2. Biuret Content % by mass, 3. Moisture % by mass, 4. Particle Size % by mass 5. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm),	SLS 618: 2014				
7	UREA-PRILLED	1.Total Nitrogen (as N) % by mass, 2.Biuret Content % by mass, 3.Moisture % by mass, 4.Particle Size % by mass 5.Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm),	SLS 618: 2014				
8	POTASSIUM CHLORIDE (GRANULAR)	1. Water Soluble Potasssium (as K ₂ O) % by mass, 2. Na Content (as NaCl), % by mass, 3. Mg content (as MgCl ₂) % by mass 4. Moisture % by mass 5. Particle Size % by mass 6. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm)	SLS 644: 2014				
9	POTASSIUM CHLORIDE (CRYSTALLINE POWDER)	1. Water Soluble Potasssium (as K ₂ O) % by mass, 2. Na Content (as NaCl), % by mass, 3. Mg content (as MgCl ₂) % by mass 4. Moisture % by mass 5. Particle Size % by mass 6. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm)	SLS 644: 2014				

10	AMMONIUM SULPHATE	1. Ammoniacal Nitrogen (as N) % by mass, 2. Free Acidity (as H ₂ SO ₄) % by mass, 3. Moisture % by mass, 4. Sulphur (as S) % by mass, 5. Particle size % by mass, 6. Potentially toxic elements such as Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm) As (ppm)	SLS 620: 2014				
11	AMMONIUM CHLORIDE	1. Moisture % by mass 2. Ammoniacal nitrogen (as N) % by mass 3. Chlorides (as NaCl) other than ammonium chlorides % by mass	SLS 621:1983				
12	ZINC SULPHATE	1. Zn Content (as Zn) % by mass, 2. Mg Content (as Mg) % by mass, 3. Cu Content (as Cu) % by mass, 4. Matter insoluble in water % by mass 5. Lead content (as Pb) % by mass 6. pH of 10% (m/v) solution	SLS 665: 1984				
13	CALCIUM NITRATE	1. Total Nitrogen % by mass, 2. Nitrate N % by mass, 3. Ammonium N % by mass, 4. Ca% by mass, 5. Water Insoluble, 6. Iron % by mass, 7. Chloride % by mass, 8. PO ₄ % by mass, 9. pH Value, 10. As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm)					
14	FERTILIZER AND SOIL CONDITIONER SOLID UREA ALDEHYDE SLOW RELEASING FERTILIZER	1. Total Nitrogen 2. Ureic nitrogen 3. HWSN 4. Al	SLS 1753:2023				
15	HEAVY METAL	As (ppm), Cd(ppm), Pb(ppm), Cr(ppm), Hg(ppm)					

16	NPK COMPOUND						
17	FERTILIZER AND SOIL CONDITIONERS CONTROLLED-RELEASE FERTILIZER	1. Mass fraction of total nutrient 2. Particle size 3. Nutrient release period 4. Initial release rate of nutrient 5. Cumulative release mass fraction of nutrient in 28 days 6. Cumulative release mass fraction of nutrient of nutrient during nutrient release period %	SLS 1754:2023				
18	FERTILIZER AND SOIL CONDITIONER – SULFUR COATED UREA	1. Total nitrogen 2. One day dissolution rate 3. Seven-day dissolution rate 4. Sulfur mass fraction 5. Biuret 6. Water mass fraction 7. Particle size	SLS 1756:2023				

Date :

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 Authorized Signature
 (Official Stamp)

02. Organic Fertilizer

1	LIQUID ORGANIC FERTILIZERS	1.pH, 2.Electrical conductivity dS/m, 3.Total Nitrogen (as N) % by mass 4.Total Potassium (as K ₂ O) % by mass 5.Total Phosphorus (as P ₂ O ₅) % by mass, 6.Total primary nutrient, (N+ P ₂ O ₅ + K ₂ O) % by mass 7.Total organic carbon % by mass, 8. Faecal coliform MPN per ml, 9. Salmonella per 25 ml, 10.Ecoli 0157, Vibrio, listeria 11. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm)	SLS 1702:2023				
2	BIOFERTILIZERS	1. pH 2. Moisture 3. Minimum viable cell count of the active agent 4. Non-target bacteria contamination 5. Pathogenic microbes 6. Efficiency character 7. Nodulation test 8. Nitrogen fixation 9. Particle size 10. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm) <i>The above requirement is applicable to the following (Rhizobium inoculant, Phosphate solubilizing microbial inoculants, Azospirillum and Azotobacter type bacteria)</i>					

3	COMPOST MADE FROM MUNICIPAL SOLID WASTE	1. Moisture 2. pH, 3. Conductivity dSm-1, 4. Foreign Matter, 5. Sand content % by mass, 6. Particle size % by mass 7 Total Nitrogen (as N) % by mass 8. Total Phosphate (as P ₂ O ₅) % by mass, 9. Total Potassium (as K ₂ O) %, by mass 10. Total Magnesium (as MgO) %, by mass 11. Total Calcium (as CaO) % by mass, 12. Organic Carbon (as C) % by dry basis, 13. C: N ratio, 14 Faecal coli forms colonies (MPN) 15. Salmonella, 16 Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm), Ni (ppm)	SLSI 1634: 2019				
4	COMPOST MADE FROM RAW MATERIALS OF AGRICULTURAL ORIGIN	1. Moisture, 2. pH, 3. Conductivity dSm-1, 4. Foreign Matter, 5. Sand content % by mass on dry basis 6. Particle size % by mass, 7. Total Nitrogen (as N) % by mass, 8. Total Phosphate (as P ₂ O ₅) % by mass, 9. Total Potassium (as K ₂ O) % by mass, 10.Total Magnesium (as MgO) % by mass, 11.Total Calcium content, as CaO%, 12. Organic Carbon (as C) % by dry mass, 13. C: N ratio, 14. E-coli 14. Salmonella 15. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm), Ni (ppm)	SLSI 1635:2019				

5	COMPOST FOR ORGANIC AGRICULTURE	1. Moisture, 2. pH, 3. Conductivity dSm-1, 4. Foreign Matter / visible contaminants, 5. Sand content % by dry basis, 6. Particle size % by mass, 7. Total Nitrogen (as N) % 8. Total Phosphate (as P ₂ O ₅) % by mass, 9. Total Potassium (as K ₂ O) % by mass, 10. Total Magnesium (as MgO) % by mass, 11. Total Calcium (as CaO) % by mass, 12. Organic Carbon as C% by dry basis, 13. C: N ratio, 14. Faecal coli forms colonies (MPN) 15. Salmonella 16. Infective Parasites-Nematode, 17. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm), Ni (ppm)	SLSI 1684:2020				
6	STERILIZED SOLID ORGANIC FERTILIZER	1. Moisture, 2. pH, 3. Conductivity dSm-1, 4. Foreign Matter/ visible contaminants, 5. Sand content % by mass on dry basis, 6. Particle size % by mass, 7. Total Nitrogen (as N) % by mass 8. Total Phosphate (as P ₂ O ₅) % by mass, 9. Total Potassium (as K ₂ O) % by mass, 10. Total Magnesium (as MgO) % by mass, 11. Total Calcium (as CaO) % by mass, 12. Organic Carbon as C% by dry basis, 13. C: N ratio, 14. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm), Ni (ppm)	SLS 1704: 2021				

Note: Test method which are not in the standard, please specify the test method and status of validity.

Also mention the ability to test for any adulterations by Urea, MOP, TSP, SSP etc. for all types of organic fertilizers (Liquid or Solid forms)

Date :

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Authorized Signature
(Official Stamp)

Form 03

Method of payment

I/ We agree to issue the Test report within 10 working days from the date of receiving the sample, The report will be issued to the National Fertilizer Secretariat after the full payment is made by the fertilizer Importer/ Manufacturer/ Blender.

Also I/ We accept the delays of issuing reports shall not be tolerated by the NFS and agreed the conditions (LD) given in the clause () of conditioning contract stipulated in the bidding document for the delaying of issuing of reports.

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Authorized Signature

Date:

Official Stamp: