**Form 01**

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

**(State Ministry of Promoting the Production & Regulating the Supply of Organic Fertilizer, and Paddy & Grains , Organic Foods, Vegetables, Fruits, Chillies, Onion and Potato Cultivation Promoting ,Seed Production and Advanced Technology Agriculture )**

1. Background
   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, currently the National Fertilizer Secretariat (NFS) is performing to meet the requirements of the Government’s Organic Agriculture Policy.
2. Control Quality, Distribution, Marketing of Fertilizers
3. Regulate the imported fertilizer and storing
4. Granting the licenses for manufacturing and mixing of fertilizer to fertilizer manufacturers
5. Implement the Government fertilizer subsidiary scheme
   1. 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.
   2. Suitable accredited analytical laboratories are to be selected by calling EOI to perform fertilizer testing purposes.
6. Scope   
   1. Selection of suitable local accredited analytical laboratories would
7. Enhance reliability of test results and adherence to the international laboratory practices.
8. Result in greater availability of competent laboratories and proficient competent personnel.
9. Allows uniformity in protocols and procedures across the laboratory network and prices for the same tests.
10. Reduces mitigations among the stake holders.
11. Ensure timely delivery of results as per the schedule stipulated in the EOI.
12. Eligibility criteria.

Should be an accredited analytical laboratory of International Lab Accreditation Cooperation (ILAC MRA) or/and the Sri Lanka Accreditation Board (SLAB) for the scope of performing Chemical and Microbiology testing on product category of fertilizer based on ISO, SLS and the laboratory test method appearing in the list. To prove the eligibility,

1. Certificate of ISO / IEC 17025:2017
2. Valid ILAC MRA or/and SLAB certificate
3. Valid certificate certified by the ILAC MRA or/and SLAB (given of scope) should be submitted.
   1. Notification / recognition by other regulatory agencies will attract additional weightage during evaluation.
   2. Should have technically qualified and well – experienced in – house manpower.
   3. Should have sufficient in house infrastructure and laboratory equipment to carry out the tests according to the test method.
   4. Should have strong research background as evidenced by publications in peer reviewed journals in the fertilizer area.
   5. Should have experience of conducting hands on training facility either in – house or at a third party premises.
   6. Documentary evidences should be given / provided for fulfilling each condition as part of application
4. 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.
5. 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.

1. Availability of EOI and Bid fee

6.1 The EOI can be downloaded free of cost / charge from the following web site if hard copy is required, it can be taken from National Fertilizer Secretariat, State Ministry of Promoting the Production & Regulating the Supply of Organic Fertilizer and Paddy , & Grains, Organic foods, Vegetables, Fruits, Chillies, Onion and Potato Cultivation Promoting, Seed Production and Advanced Technology Agriculture.

6.2 Duly filled EOI application should accompany with refundable fee of Rs. 25000 (in cash deposit in favor of the Secretary) to Secretary, State Ministry of Promoting the Production & Regulating the Supply of Organic Fertilizer and Paddy, & Grains, Organic foods, Vegetables, Fruits, Chillies, Onion and /Potato Cultivation Promoting, Seed Production and Advanced Technology Agriculture, 80/5, “Govijana Mandiraya”, Rajamalwatte Lane, Battaramulla.

1. Submission of proposal

The proposal completed in all respect should be submitted in sealed envelope address to the “Director, National Fertilizer Secretariat, 80/5, Govijana Mandiraya, Rajamalwatta Rd, Battaramulla”. Please superscript as “EOI for selection of Analytical Laboratories for Fertilizer Analysis” in the top left Corner of the envelop on or before 31.12.2021.

1. Amendments to EOI

Any clarification or amendment is feasible only before 07.01.2022

1. Evaluation

Selection of the laboratories will be done by the Technical Evaluation Committee ofState Ministry of Promoting the Production & Regulating the Supply of Organic Fertilizer, and Paddy & Grains, Organic Foods, Vegetables, Fruits, Chillies, Onion and Potato Cultivation Promoting, Seed Production and Advanced Technology Agriculture according to the procurement guidelines.

1. 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 State Ministry of Promoting the Production & Regulating the Supply of Organic Fertilizer, and Paddy & Grains, Organic Foods, Vegetables, Fruits, Chillies, Onion and Potato Cultivation Promoting, Seed Production and Advanced Technology Agriculture according to the procurement guidelines.

1. Rejection of EOI (as per the Government Procurement Guidelines, 2006).
2. Disclaimer (as per the Government Procurement Guidelines, 2006).

**Form 02**: **Price proposal**

1. **Inorganic Fertilizers**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **PRODUCT(S)/ MATERIAL OF TEST** | **PARAMETERS TO BE TESTED** | **SPECIFY THE TEST METHOD / STANDARD AGAINST WHICH TEST ARE PERFORMED** | **RANGE OF TESTING / LIMITS OF DETECTION** | **TIME WOULD BETAKEN TO ISSUE ANALYZE RESULTS** | **PRICE** |
| 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 SO3) % by mass  5. Moisture content % by mass | SLS 1105: 1995  AOAC 2006.3 |  |  |  |
| 2 | DI-AMMNOIUM PHOSPHATE | 1. Total Nitrogen in ammoniacal form % by mass  2. Total Phosphate (as P2O5) % by mass,  3. Water Soluble Phosphate (as P2O5) % by mass,  4. Moisture % by mass,  5. Particle size % by mass | SLS 1131: 1996  AOAC 2006.3 |  |  |  |
| 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 SO3) % 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  AOAC 2006.03 |  |  |  |
| 4 | SINGLE SUPER PHOSPHATE | 1. Moisture %  2. Total Phosphates (as P2O5) %,  3. Water Soluble Phosphates of the total phosphates as P2O5%,  4. Free Phosphoric Acid (as P2O5) % by mass,  5. Moisture % by mass,  6. Particle Size % by mass  7. Cd Content (ppm) | SLS-1318:2004  AOAC 2006.03 |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5 | TRIPLE SUPER PHOSPHATE | 1. Total P (as P2O5), % by mass,  2. Water soluble P of the total P (as P2O5) %by mass,  3. Free Phosphoric acid (as P2O5) % 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  AOAC 2006.3 |  |  |  |
| 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  AOAC 2006.03 |  |  |  |
| 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  AOAC 2006.03 |  |  |  |
| 8 | POTASSIUM CHLORIDE  (GRANULAR) | 1. Water Soluble Potasssium (as K2O) % by mass,  2. Na Content (as NaCl), % by mass,  3. Mg content (as MgC12) % 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  AOAC 2006.3 |  |  |  |
| 9 | POTASSIUM CHLORIDE  (CRYTALLINE POWDER) | 1. Water Soluble Potasssium (as K2O) % by mass,  2. Na Content (as NaCl), % by mass,  3. Mg content (as MgC12) % 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  AOAC 2006.3 |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 10 | AMMONIUM SULPHATE | 1. Ammoniacal Nitrogen (as N) % by mass,  2. Free Acidity (as H2SO4) % 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  AOAC 2006.3 |  |  |  |
| 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  AOAC 2006.3 |  |  |  |
| 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. PO4% by mass,  9. pH Value,  10. As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm) |  |  |  |  |
| 14 | HEAVY METAL | As (ppm), Cd(ppm), Pb(ppm), Cr(ppm), Hg(ppm) | AOAC 2006.3 |  |  |  |
| 15 | NPK COMPOUND |  | AOAC 2006.3 |  |  |  |

**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 K2O) % by mass  5.Total Phosphorus (as P2O5) % by mass,  6.Total primary nutrient, (N+ P2O5+ K2O) % by mass  7.Organic carbon % by mass,  8. Faecal coliform MPN per ml,  9. Salmonella per 25 ml,  10. Potentially toxic elements such as As (ppm), Cd (ppm), Pb (ppm), Cr (ppm), Hg (ppm) | SLS 1702:2021 |  |  |  |
| 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)  ***The above requirement is applicable to the following (Rhizobium* inoculant, Phosphate solubilizing microbial inoculants, Azospirillum *and Azotobacter type bacteria)*** |  |  |  |  |
| 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 P2O5) % by mass,  9. Total Potassium (as K2O) %, 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 P2O5) % by mass,  9. Total Potassium (as K2O) % 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. Faecal coli forms colonies (MPN)  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 P2O5) % by mass,  9. Total Potassium (as K2O) % 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 P2O5) % by mass,  9. Total Potassium (as K2O) % 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)**

**Form 03**

Method of payment

Option No :

01 ) I /We agree to issue test report within the given period by the time as stipulated in above schedule from the date of receive the sample, full payment has to be done by the NFS on behalf of the fertilizer producer once the report is available to the NFS.

02 ) NFS shall pay on behalf of the fertilizer producer at the time of hand over the samples to be

get tested.

03) I / We accept payment for the analytical report after being issued the analytical report to

the NFS. However the particular fertilizer producers shall have deposit an amount of ………………….. in fever to I / We as an advance to perform analysis before been delivered samples to I / We .

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.

Out of the above mentioned payments methods agree to follows option No ……………………

………………………………………

Authorized Signature

Date:

Official Stamp: