

File No. 15011/20/2017-MPR
Government of India
Ministry of Chemicals & Fertilizers
Department of Fertilizers
(SSP Cell)

229-A Shastri Bhawan,
New Delhi, the 21st September 2022

To,

All the Manufacturers of Single Super Phosphate (SSP).

Subject: Rationalization / Consolidation of guidelines pertaining to SSP Industry –reg.

BACKGROUND

Single Super Phosphate is an important indigenous fertilizer for Phosphorus content. SSP can act as a better substitution for DAP if the quality of raw materials, manufacturing processes are maintained as per standard specifications. In the past, the guidelines on SSP fertilizer were notified through various OMs/ letters/ circulars of this department from time to time. It has now been felt necessary to rationalize and consolidate all the earlier guidelines of SSP to ensure availability of quality raw materials and manufacturing of SSP as per standard specifications for the benefit of the farming community. After various rounds of consultations / deliberations with various stakeholders, the consolidated guidelines have been arrived at.

In supersession of all earlier guidelines/circulars/OM's related to different aspects of SSP Industry as issued by DoF from time to time, the following consolidated guidelines are issued herewith:-

1. Eligibility Criteria for Induction of New Units under NBS

- i. With effect from 01.04.2024, only those new units of SSP having capacity of minimum 1,00,000 MT will be inducted under NBS.
- ii. All new manufacturers shall address their request to Joint Secretary (SSP – Cell), Department of Fertilizers, Shastri Bhawan, New Delhi, along with the documents mentioned hereunder for induction as manufacturers eligible for availing of subsidy under the NBS.
- iii. **Documents to be submitted for consideration of induction under NBS :-**

- Copy of valid Registration Certificate under FCO.
- Copy of the Memorandum of Association of the company along with the copy of the latest Audited Annual Report wherever applicable.

- Copy of the certificate of Incorporation issued by the Registrar of Companies
 - Consent to Establish / Operate issued by the State Pollution Control Board
 - Any other additional information / document as may be requisitioned by DoF for consideration of the request.
 - Factory license.
 - GST Certificate etc.
- iv. **Technical Audit and Inspection:-** After examination of the request of the Unit, DoF shall direct agency approved/ notified by DoF to undertake '**first time**' & **Six Monthly** technical inspection of the unit in order to assess the production capability and other parameters for production of FCO Standard SSP. Based on the report received in DoF, the unit shall be considered for its induction under the NBS Scheme.
- v. All new SSP units must have granulation plants for granulation of SSP.

2. Eligibility for payment of subsidy under NBS For existing SSP Units:-

- i. With effect from 01.04.2024, Subsidy will be admissible to only those SSP manufacturers whose **unit wise production** in the preceding FY i.e. 2023-24 will be **Minimum 50,000 MT** (subject to approval of Cabinet). Existing SSP units have to submit their plan of capacity enhancement to DoF, before 31.03.2023.
- ii. Existing SSP units have to submit plan for switching over to Granulation before 31.3.2023.

3. **Technical Audit and Inspection:-** Subsidy under the NBS Scheme shall be available only to those manufacturers of SSP who will undergo '**six monthly**' audit / inspections by an agency as notified by DoF from time to time.

4. **Sourcing of Raw Materials and testing :**

A. **Rock phosphate having P₂O₅ equal to or greater than 29.5% shall be allowed to be used as Primary Rock subject to:-**

- i. Weighments of rock phosphate should be ensured by installing digital rock feeder instrument at rock feeding point.
- ii. Sampling & Testing of each consignment/vessel of 29.50% P₂O₅ (min) grade Rock Phosphate shall be done by DoF approved agency.
- iii. Rock evaluation shall also be conducted for rock phosphate of 29.50% (min.) P₂O₅ grade by DoF approved agency, if required.
- iv. Filler is not allowed to be added in SSP manufactured from 29.50% (min.) P₂O₅ grade Rock Phosphate for maintaining the quality in the production of SSP.
- v. Technical Norms



Rock/SSP = 0.56 (min)

Acid/SSP = 0.35

Acid/Rock = 0.62

- vi. In case of above grade rock phosphate, if P₂O₅ content found to be between 29.49-28.00 after testing, it will be allowed for blending under intimation to DoF with corresponding entries in iFMS portal.
- vii. In case of above grade rock phosphate, if P₂O₅ content found to be below 28.00 % P₂O₅ after testing, it will be sold to BRP units under intimation to DoF with corresponding entries in the iFMS Portal.

B. General directions for Sampling & testing procedure :-

B. I. Imported Rock Phosphate:-

- i. Hatch wise single composite sample for all companies **importing same grade of Rock Phosphate** through single Ship / Vessel will be done by labs/ agencies notified by DoF from time to time.
- ii. Largest importer on the Ship will make request for sampling. In case of equal quantity by all importers, anyone of them may apply for sampling.
- iii. Companies need to intimate DoF at least 15 days in advance about the arrival of their consignments/ vessel. Based on the exact time of arrival at the port, sampling could be done at port by the agency as per the directions of DoF. The samples would be taken 'In - camera' at the port. The sampling, testing & submission of test report to DoF by the agency shall be completed within 15 days from date of discharge of vessel at port.
- iv. SSP quality will also be tested on quarterly basis by the agency notified by DoF.

B.II. Indigenous Rock Phosphate:-

- i. In case of indigenous Rock Phosphate, Unit Wise sampling will be done on purchase-wise quantity at the plant by agency notified by DoF.
- ii. Testing of the Indigenous Rock Phosphate shall be done by the DoF approved/ notified laboratories.

B.III. Standards of Testing:-

- C. Each unit should have good lab facility with trained Quality Testing Manpower as per the specifications of FCO.
- D. **Referee analysis of Rock phosphate sample:-** Only one referee analysis will be allowed in case, Rock Phosphate fails in analysis through laboratories approved/ notified by DoF from time to time. The applicant

has to submit the application for Referee Analysis of the Rock Phosphate sample within 15 days from the date of communication of failure of the sample by DoF. Till the receipt of the result of Referee Analysis, the consignment of Rock Phosphate failed in analysis should not be used by the Unit for production of SSP.

E. No fillers are allowed to be added in SSP produced.

F. FCO Standard SSP should be manufactured by the Unit.

6. **Blending grades of Rock Phosphate:-** Blending ratio for combination of primary and secondary rocks shall be notified by DoF after consultation, subsequent plant trials and lab results obtained from the approved/notified agency of DoF.

7. **Import/ purchase/Loaning of Rock Phosphate:-**

- i. Import /purchase of rock phosphate should be made directly from the suppliers duly supported by original Bill of lading in the name of SSP manufacturers as direct importer along with the certificate of the Mine from which the Rock Phosphate has been mined certifying its composition and clearly specifying its P₂O₅ Content
- ii. Import be supported by bill of entry and Quality certification at loading & unloading port by international agency
- iii. Each shipment of imported Rock Phosphate meant for SSP manufacturing would be tested by an agency notified by DoF.
- iv. Each shipment of imported Rock Phosphate should be supported by certification by Mining Company from which the Rock Phosphate has been mined.
- v. Purchase of rock phosphate / BRP from RSMML and other approved BRP manufacturers in India be duly supported by vouchers issued by the seller companies.
- vi. Purchase of rock phosphate from other importers will be allowed subject to:
 - (a) The Bill of Lading is endorsed in favor of concerned SSP manufacturer, or
 - (b) The Bill of Entry should be in the name of SSP manufacturer.
 - (c) Certificate of the Mines from where the rock has been mined certifying its composition and clearly specifying its P₂O₅ Content.
- vii. Companies have to feed data on iFMS regarding purpose, invoice, grade, price, exchange rate, customs duty, discount, IEC, HSN Code, mine certification & conversion rate etc.
- viii. Transfer / movement of Rock Phosphate from one NBS registered unit to other NBS registered unit on loan basis to be permitted subject to approval of DoF & entry into iFMS.

8. **Guidelines for Beneficiated Rock Phosphate (BRP) Plants:-**

A. General Guidelines:-

- i. The purchase of Rock through traders is not allowed.
- ii. First time technical inspection will be done by agency notified by DoF before start of beneficiation of Rock Phosphate.
- iii. Each consignment of Rock Phosphate used for BRP (imported/indigenous) would be sampled / tested by approved/ notified agency of DoF before its use for BRP.
- iv. Quarterly sampling / testing of BRP and SSP manufactured by BRP would be done by approved/ notified agency by DoF.
- v. Six Monthly Technical & Commercial Audit of BRP plants be done by approved/ notified agency by DoF.
- vi. All BRP units are required to have NABL accredited labs.
- vii. The import of Low Grade Rock Phosphate (LGRP) having P_2O_5 content below 26% is not allowed.

B. Technical Guidelines for BRP units:

- i. Consumption Norms of Chemicals used in BRP Plants
 - a. Sodium oleate (100 % Purity) : 1-1.5 Kg/MT of BRP
 - b. Sodium silicate (100 % Purity): 1.25-1.8 Kg/MT of BRP
- ii. BRP units to have separate electric meter exclusively for BRP unit.
- iii. Complete analysis of rock phosphate, BRP & Tailing must be done, at least once for each lot.
- iv. BRP plants should install weighment of rock phosphate at the feeding point.
- v. The reporting of P_2O_5 content of rock phosphate, BRP and tailing must be accompanied with moisture content. The date/report must specify whether the P_2O_5 content is on 'dry or wet' basis.
- vi. BRP plants to make provisions for polythene lined RCC ponds for storing tailings slurry.
- vii. All the plants should follow IS: 11224-1985 for P_2O_5 testing.
- viii. Quantity of chemicals used, should be standardized and proper record of consumption of chemicals should be maintained.
- ix. Lab Chemicals/reagents should be of analytical grade and not of technical grade. Reagents should be maintained at 24-26 degree Celsius in a refrigerator.
- x. Calibration of measuring devices i.e. balance, temperature control furnace, sieve etc. should be carried out as per schedule. Records of calibration schedule & calibration certificated should be maintained

- xi. Analysis sheet should be signed in advance by the laboratory in-change. All readings must be recorded in the analysis sheet only. No cutting/over-writing should be allowed.
- xii. Different grades of rock phosphate should be stored separately and marked distinctly to avoid inadvertent mixing of different grades.
- xiii. Rotameter/flow measuring instrument should be installed for measurement of chemical dosing fro flotation and depressant agents.
- xiv. Storage of produced wet BRP in kutchra pond or on kutchra floor should be avoided to prevent it from getting contaminated.
- xv. If SSP plant is in vicinity, BRP storage should be adequately isolated.
- xvi. Tailing disposal Plan containing details of the quality of tailings and disposal of the tailings to be submitted to be DoF on Quarterly basis.
- xvii. Tailing is not to be sold/ disposed off by the unit, for its use as fertilizer.

9. **Minimum Automation required for SSP Plants:-**The plants will complete minimum automation within two years of notification in phase wise as given below:-

Phase-1 (Within a period of six months)

- i. Sulphuric Acid control valve and flow transmitter.
- ii. Dilution water control valve and flow transmitter.
- iii. Digital Rock feeder belt weighers.
- iv. Mixer temperature indicator / transmitter.

Phase-2 (Within a period of one year)

- i. PLC based control system with control room.
- ii. Stack monitors as per CPCB / SPCB guidelines (particular matter / Fluorine).
- iii. Dryer inlet and outlet gas temperature.
- iv. Emission Control System.

Phase- 3 (Within a period of two year)

- i. NABL Labs

10. **Provisions for Marketing Arrangements for sale of SSP:-**

- i. An SSP unit shall be eligible for sale of its product by entering marketing arrangement with any one or more urea manufacturers or P&K fertilizer

companies (both manufacturers/importers), which are registered under NPS or NBS Scheme with the approval of the Department of Fertilizers.

- ii. In case of marketing arrangement with registered Fertilizer Company, product should be in the brand name of the manufacturer of SSP and the subsidy will be eligible for the SSP unit itself. The SSP unit shall be liable for fulfillment of all the conditions such as quality of the product, uploading/entering of date of production, sale, dispatch, etc.
- iii. The name of SSP Manufacturer should be prominently displayed on the bags of SSP sold under the marketing arrangements issued by the Department of Fertilizers. The font size of the name of manufacturer on the bag shall not be smaller than 35 Arial black. The font size of the name of marketer shall not exceed the font size of 25 Arial black on 50 Kg SSP Bag.
- iv. Sale of SSP under the marketing arrangement is permissible with the approval of Department of fertilizers, any sale under marketing arrangement without approval of DoF shall not be eligible for subsidy under NBS Scheme.

11. **Recovery provisions in case of Non Standard/ Sub-Standard SSP/ Violation of guidelines:-**

- i. 1st violation – subsidy of 1 day's **production capacity** of the unit will be recovered.
- ii. 2nd violation - subsidy of 15 days' **production capacity** of the unit will be recovered.
- iii. 3rd violation - subsidy of 30 days' **production capacity** of the unit will be recovered.

12. **Freight Subsidy to SSP Manufacturers:-**

Subsidy on movement of SSP will be admissible as per existing DoF's guidelines notified on 01.09.2022.

13. **For export of SSP, unit should seek prior approval of DoF.**

14. **Exception Clause:- Usage of rock containing 29% P₂O₅ as Primary Rock:-**

- I. The manufacturers of SSP are allowed to use Rock Phosphate having 29.00 % P₂O₅ (minimum) as primary rock on case to case basis with prior approval of DoF. Following conditions are also prescribed by DoF for use of such grades as primary rock:



- i. The use of 29% rock phosphate will be allowed only after sampling / analysis / plant trial by approved/ notified agency of DoF.
 - ii. Digital rock feeder system must be installed in the unit.
 - iii. In case of 29 % P₂O₅ Rock Phosphate, if P₂O₅ content is found to be between 28.99 – 28.00, it will be allowed as blending.
 - iv. In case of 29% P₂O₅ Rock Phosphate, if P₂O₅ content is found to be less than 28%, it will not be used by SSP company and it will be sold to BRP units under intimation to DoF and corresponding entries in iFMS.
15. This issues with the approval of **Hon'ble Minister (C&F)**.



(Harvinder Singh)
Director (SSP-Cell)
Department of Fertilizers

Copy to:

1. PS to HMCF
2. PS to MoS(C&F).
3. PS to Secy (F)
4. All concerned officers of DOF.
5. PS to Secy DAC&FW
6. Director/Commissioner of Agriculture, all the State Government.
7. PDIL/FEDO/ FAI and PSUs of DOF.
8. All the manufacturers/importers of P&K fertilizers.