Ref. No. MSSC/PROC/2018/... Date: 21-02-2018

By Email directorqc@rediffmail.com, ddaseed@gmail.com

To
Director (Inputs & Quality Control)
Commissionerate of Agriculture,
Maharashtra State, Central Building,
Pune-411 001 (M.S.)

Sub:- Detailed technical specifications of seed processing machinery and seed storage godown of 500 M. Tons capacity.....

Ref:- Meeting held on 31-01-2018 at CAMS Pune in this regard (Minutes dt. 3-02-2018)

Dear Sir,

As discussed in the said meeting, MSSCL has prepared the detailed technical specifications of seed processing machinery for 500 M. T. capacity Seed Processing Plant for which 1 TPH (One ton per hour) capacity seed processing line is considered.

In the guidelines of Govt. of India for 1 TPH capacity seed processing plant, the model estimation of Rs. 24,23,900/- is provided whereas the actual cost of said machinery will depend upon the offers received from the various machinery supplying companies, however what should be the salient features and technical specifications of seed processing machinery are elaborately given in the enclosed sheet. In place of Indented cylinder, Seed Treater machine of 1 TPH capacity is considered in Maharashtra, Indented cylinder is not much in practice, however Seed Treater machine is must. Irrespective of higher cost for the machines of these specifications, the support under this scheme to component of processing machinery/ equipments would be to the tune of Rs. 23,23,900/- or actual cost whichever is minimum.

State level committee will scrutinize the proposal of processing machinery received with respect to these specifications and salient features.

Regards to seed storage godown of 500 MT capacity, the godown of 15 m x 30 meter size is allotted by Govt. of India. For this size of godown, the estimated cost proposed is of Rs. 36,61,100/-.

Civil Engineering Section of MSSCL has prepared estimate of Rs. 39,63,916/- (excluding GST), Royalty, lead for transportation of material etc. as the perfect location of construction of godown is not known.
PWD, SSR 2017-18 is used for preparation of these estimates. In the Schedule-B, the detailed technical specifications and quantity of material to be used for construction of 15 m x 30 m size godown are given along with plan and side section.

While scrutinizing the proposal of godown submitted by beneficiaries of this scheme, the civil details will be verified by State Level Committee accordingly. Irrespective of the estimate given by parties, the funding will be to the tune of maximum support of Rs. 36,61,100/- as per GOI guidelines. It is definite that for construction of 15 m x 30 m godown with the specifications mentioned in Schedule-B (As per PWD SSR-2017-18 estimates), the actual cost would be more than cost norms.

Submitted as directed.

Thanking you,

For M.S.S.C. Limited

(Anil T. Chopade)
General Manager (P & E)

Encl: 1) Technical Specifications of seed processing machinery.
2) Civil Estimate for seed storage godown.

Copy for information to: P.A. to Hon’ble Managing Director.
No 15-4/2017-SD-VI
Government of India
Ministry of Agriculture & Farmer’s Welfare
Department of Agriculture, Cooperation & Farmer’s Welfare
F-wing, 2nd Floor Hall,
Sastri Bhawan, New Delhi.
Dated: 22.01.2016

To
Agricultural Production Commissioner/Principal Secretary Agriculture
of all the States.

Subject: Operational Guidelines for establishment new Seed production processing
unit cum storage units at Gram Panchayat level as per Recommendations of Group
of Secretaries (GOS) - regarding

Sir,

I am directed to forward a copy of Operational Guidelines for establishment new
Seed production, processing unit cum Seed storage godown by Farmers Producing
Organisation (FPOs), Self Help Groups (SHGs), Cooperatives, Commodity Interest
Group (CIGs) other agency authorized/approved by concerned State at Gram
Panchayat level under SMSP for information and necessary implementation. The State
wise Targets to establish Seed production processing units and Seed storage godown
facilities at Gram Panchayat level has already circulated vide letter of even number dated

In order to establishment new Seed production, processing unit cum Seed storage
godown in the State, you are requested to furnish proposal at your earliest, indicating
location wise details in the enclosed proforma at Annexure-I.

The physical progress is required to be furnished in the enclosed proforma at Annexure-II.

Enc. A

Yours faithfully,

(S. Selvaraj)
Deputy Commissioner (Seeds)
Fax No: 011-23369242

Copy to:
1. Commissioner/Director of Agriculture at States for information and necessary action.
3. CGC(Evid.),ICAR, Krishi Bhawan, New Delhi for information.
4. ADCG(Seeds),ICAR, Krishi Bhawan, New Delhi for information.
5. UAS(Seeds),UAS(Policy),DAC&FW, Krishi Bhawan, New Delhi for information.
Operational Guidelines for setting up of Seed Production Processing and Seed Storage Godown Facilities at Gram Panchayat Level.

1. Introduction

1.1 In order to make available the required high quality, high yielding varieties of certified quality seeds to the farmers within the reach of farmers locally, there is a need to organize seed production programme locally by farmers, by providing facilities for seed processing seed cleaning, seed grading, packaging and seed storage godown facilities locally and farmers has to be trained on seed production and seed technology including seed processing, seed storage, testing of seed locally, book keeping, accountancy, financial management and marketing of seeds etc.

1.2 In the light of this Group of Secretaries (GOS) for Group 1 Agriculture & allied sectors has recommended for setting up of 500 Seed production processing and Seed Storage Godown facilities at Gram Panchayat level so as to make available quality seeds to the farmers locally. The norms for setting up of seed processing and seed storage godown will be same as already available under the existing component of creation on seed infrastructure facilities under SMSP.

1.3 Seed processing is vital part of the total technology involved in making available high quality seeds. Proper post harvest processing is critical to maximize yield, longevity, vigor and quality of the Seed crop. Seed processing is necessary in order to dry the seeds to safe moisture level removal or reduce to the extent possible the different undesirable materials deteriorated or damaged seeds, uniform size grading and seed treatment to upgrade the overall seed quality.

2. Implementing Agencies:

2.1 Farmers Producing Organizations (FPOs), Farmer Seeds Producing Organizations (FSPOs), Self Help Groups (SHGs), Co-operatives, Commodity Interest Groups (CIGs) and other reliable agency involved in agricultural activity approved by concerned State Govt will be eligible for financial assistance for this purpose.

2.2 The implementing agencies will have the flexibility to establish seed processing unit and storage godown of lesser capacity required assessed by them. The eligible grants-in-aid will be reduced accordingly.

2.3 The grants-in-aid will be provided to the implementing agencies which have already have required land and manpower to establish and to successfully run the seed processing and seed storage facilities. The cost of land and its registration fees will not be allowed in any cases.

2.4 While forwarding the proposal it shall be the sole responsibility of implementing agency that seed processing machineries equipments required for seed processing plants should be latest and cost effective and best suited for the agro climatic conditions/ crops grown in that area, so that maximum benefits could be reached to the local farmers.
3. **Pattern of Assistance:**

3.1 As per the existing component Creation of Seed Infrastructure Facilities under SMSP, 100% grants-in-aid will be provided by GOI to the concerned State for setting up of Seed Processing and Seed Storage Facilities at gram Panchayat level. The Financial assistance will be provided to the States in one go. Further State has to transfer this amount to concerned implementing agencies i.e. FPOs, SHGs, FSPOs, CIGs Cooperative etc. within 15 days after receipt of grants from GOI positively.

3.2 One time 100% GOI grant of Rs. 60 lakh or actual whichever is less will be available for setting up of seed processing and seed Storage godown each of 500 MT capacity at gram Panchayat level for the implementing agencies i.e. FPOs, SHGs, Cooperative, CIG, etc. This include all the expenditure including procurement of seed processing machinery/equipments, small plant building, drying floor (receving shed, and construction work of Seed Processing cum Seed Storage Godowns proper drainage, boundary wall, electricity (if any) required for smooth functioning of these facilities. Model Estimate Components of project is at Annexure.

3.3 The expenditure over and above guideline has to be met by the concerned implementing agency from their own sources or State Govt. The financial assistance should be utilized only for the purpose it was released. No diversion of funds will be allowed in any case.

4. **Names for construction of Seed Processing cum Seed Storage Godown:**

4.1 The construction of seeds processing cum godown shall be as per the CPWD or State PWD specifications or any specification laid down in this behalf. The Storage godown shall be properly ventilated shall have well fitted doors, windows and ventilators and shall be waterproof (control) of moisture from floor, walls and roof, etc. The Seed processing cum godown structure shall have protection from rodents (high pucca elevated 1 meter) platform with wooden/other type staircase. The seeds processing cum godown shall have protection from birds (window/ventilators with grill) The openings of the seeds godowns such as doors, windows etc. shall be designed in such a manner that the seeds godown can be sealed for effective fumigation etc. The Seeds Processing cum godown complex shall have an easy approach road, pucca internal roads, proper drainage arrangements for easy loading and unloading of seed stocks.

4.2 The State has required to seek prior approval from GOI for change of location (if any) of setting up of seed processing and seed Storage Godown.

5. **Implementation Strategy:**

5.1 The seed processing plant and seed storage godown may be established on Govt. and/Government seed farms/Panchayat owned land/FPOs land/SHGs, Cooperatives, CIGs seed producing organizations land as per State priority/local demand.

5.2 The State Govt. may select the reliable existing FPOs, SHGs, Cooperatives, CIGs etc., based on their earlier performance, or new FPOs, SHGs, Cooperatives.
CIGs and also area where already seed production being undertaken so new areas where seed production is possible.

5.2 The State Govt. may decide to select the existing registered Cooperative Seed Producing Committee based on their performance and also new FPOs etc.

5.4 The setting up of Seed processing unit, Seed Storage godown will be under the component Creation of Seed Infrastructure Facilities of SMSP.

5.5 The reliable construction agencies having sufficient infrastructure, technical expertise, experience etc. already approved by the concerned State Govt. may be utilized/appointed for this purpose.

5.6 After setting up of Seed Processing Plant, overall control and monitoring may be done by concerned FPOs, SHGs, Cooperatives. CIGs Seed Producing Organizations and State Department of Agriculture or agency authorized by State will provide all back-up technical advisory support to formation of FPOs, to train the seed producing farmers of FPOs on seed production and processing, storage, finance (bookkeeping and accountant) and facilitating and helping them to source the required varieties Breeder seed from breeders of SAUs/Icar institutes and required varieties of foundation seed from their State Farms, SSOs etc for production certified quality seeds. The State shall give the first preference in marketing of produced seed from these panchayats, FPOs, SHGs etc for 3-5 years period.

5.7 The concerned State will closely monitor the procuring seed processing machinery equipments and construction work of Seed storage godowns etc. and to ensure transparency in entire tender process and execution.

5.8 It is the sole responsibility of implementing agencies and concerned State to regularly monitor the functioning of these Seed Processing and seed Storage godowns and maintain all the record, financial accounts, physical achievements season and year wise.

5.9 After the completion of work of Seed Processing and seed Storage godowns, the State will check the quality of work and submit the physical financial progress and utilization Certificate in GFR-13A to CII.
## Annexure

**Model Estimates/Components of Project is under**

**Estimate for 1 TPH (1000 kg/hr.) Seed Processing Plant cum Storage Godown**

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the machinry/equipment</th>
<th>Capacity</th>
<th>Quantity (nos.)</th>
<th>Approx. Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>V.B Elevator with suitable height to feed seed grader</td>
<td>2 TPH</td>
<td>1</td>
<td>1070000.00</td>
</tr>
<tr>
<td>2.</td>
<td>Seed Grader with all accessories and 5 set of additional screen</td>
<td>1 TPH</td>
<td>1</td>
<td>250000.00</td>
</tr>
<tr>
<td>2.</td>
<td>V.B Elevator with suitable height to feed induction cylinder with by-pass arrangement to feed gravity separator</td>
<td>2 TPH</td>
<td>1</td>
<td>250000.00</td>
</tr>
<tr>
<td>3.</td>
<td>Induction cylinder with additional one segment</td>
<td>1 TPH</td>
<td>1</td>
<td>250000.00</td>
</tr>
<tr>
<td>4.</td>
<td>V.B Elevator with suitable height to feed Gravity Separator</td>
<td>2 TPH</td>
<td>1</td>
<td>125000.00</td>
</tr>
<tr>
<td>5.</td>
<td>Specific Gravity Separator with additional one deck</td>
<td>1 TPH</td>
<td>1</td>
<td>272000.00</td>
</tr>
<tr>
<td>6.</td>
<td>Digital Electronic Weighing machine (Platform type)</td>
<td>10-100 kg</td>
<td>1</td>
<td>200000.00</td>
</tr>
<tr>
<td>7.</td>
<td>Heavy duty bag filling machine</td>
<td>300 bags/hr.</td>
<td>2</td>
<td>250000.00</td>
</tr>
<tr>
<td>8.</td>
<td>Moisture meter digital type</td>
<td>4% to 40%</td>
<td>1</td>
<td>75000.00</td>
</tr>
<tr>
<td>9.</td>
<td>Electronic control panel</td>
<td>1</td>
<td>140000.00</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Air compressor</td>
<td>2 HP</td>
<td>1</td>
<td>75000.00</td>
</tr>
<tr>
<td>11.</td>
<td>Diesel Generator set</td>
<td>25 KVA</td>
<td>1</td>
<td>315000.00</td>
</tr>
<tr>
<td>12.</td>
<td>Sub-total</td>
<td></td>
<td></td>
<td>1059000.00</td>
</tr>
<tr>
<td>13.</td>
<td>CST @ 5%</td>
<td></td>
<td></td>
<td>1059000.00</td>
</tr>
<tr>
<td>14.</td>
<td>Installation and Commisioning charges</td>
<td></td>
<td></td>
<td>2472850.00</td>
</tr>
<tr>
<td>15.</td>
<td>Total machinery cost</td>
<td></td>
<td></td>
<td>2472850.00</td>
</tr>
</tbody>
</table>

| Building construction cost 15mx30m (10mx10m space for seed processing machine plant erection/installation) Remaining 15mx30m space for seed storage godown purpose | 4500 sq.m. | 1 | 3651400.00 |

| Total cost for establishment of processing plant including building and storage godown | | | 6001400.00 |

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Plant should be designed in such a way that it is possible to take advantage of seed cleaner, induction cylinder graders and specific gravity separator as required for processing of specific crops seeds. This is tentative estimate on Seed Processing cum Storage Godown, saving of one component if any can be utilized in other component to meet the shortage where required and other exigencies etc.

Rs. 50 lakh will be provided and balance fund required, if any will be met from their own source.
| Rem. Ref. | Seed Variety | Seed Demand | Seed Procured | Feed in Crop | Feed in Industry | Total 
|-----------|--------------|--------------|----------------|--------------|------------------|--------
| 2015-16   |              |              |                |              |                  | 1087   |
| 2016-17   |              |              |                |              |                  |        |
| 2017-18   |              |              |                |              |                  |        |
| 2018-19   |              |              |                |              |                  |        |
| 2019-20   |              |              |                |              |                  |        |

**Year wise seed production (in MMT)**

- **Name of the ImplementingAgency:**
  - **Address:**
  - **Name of the State:**
  - **Storage Facilities at Gram Panchayat Level:**
  - **Proposal for Submission of Proposal for Setting up of Seed Production Processing and Seed Amendual:**
  - **Crop No.:**
  - **Total:**

**Rem. Ref.** - Remarks Reference

**Seed Variety**

- **Seed Demand:**
  - **Seed Procured:**
  - **Feed in Crop:**
  - **Feed in Industry:**
  - **Total:**

**2015-16:**
- Seed Demand: 1087
- Feed in Crop: 0
- Feed in Industry: 0
- Total: 1087

**2016-17:**
- Seed Demand: 0
- Feed in Crop: 0
- Feed in Industry: 0
- Total: 0

**2017-18:**
- Seed Demand: 0
- Feed in Crop: 0
- Feed in Industry: 0
- Total: 0

**2018-19:**
- Seed Demand: 0
- Feed in Crop: 0
- Feed in Industry: 0
- Total: 0

**2019-20:**
- Seed Demand: 0
- Feed in Crop: 0
- Feed in Industry: 0
- Total: 0

**Remarks:**

- **Contact Person (along with phone no., email, fax, etc.):**
- **Address:**
- **Name of Gram Panchayat:**

**Proposal for Submission of Proposal for Setting up of Seed Production Processing and Seed Amendual:**
# Proforma for Submission of Physical Progress for Setting Up of Seed Production, Processing and Seed Storage Facilities at Gram Panchayat Level

**Name of the State:**

**Name of the Implementing Agency:**

**Address:**

**Contact person (along with phone no., email, Fax No., etc.)** -

**Address:**

**Contact person (along with phone no., email, Fax no., etc.):**

### A) Seed Processing Facilities at Gram Panchayat

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Location of Gram Panchayat</th>
<th>Crop-wise qty. of Seeds produced at Gram Panchayat</th>
<th>Number of Processing Plant at Gram Panchayat</th>
<th>Seed Processing Capacity (M.T.)</th>
<th>Crop-wise qty. of Seeds processed (M.T.)</th>
<th>Funds Received for Seed Processing Plants from GOI (Amount Rs. in Lakh)</th>
<th>Other Information (If any)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>Target</td>
<td>Actual Achievement</td>
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<td>Actual Achievement</td>
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**Total**

### B) Seed Storage Facilities at Gram Panchayat:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Location of Gram Panchayat</th>
<th>Seed Storage Capacity at Gram Panchayat (M.T.)</th>
<th>Crop-wise qty. of Seeds Stored at Gram Panchayat</th>
<th>Funds Received for Seed Storage from GOI (Amount Rs. in Lakh)</th>
<th>Other Information (If any)</th>
<th>Remarks</th>
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</table>

**Total**

**Grand Total (A+B):**

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जाकृ.पुरुष/2/निज.ओ.एस./एसपी/६२/२०१८
कृषि आयुक्तालय, महाराष्ट्र राज्य, पुणे.
दिनांक : २२/०२/२०१८

प्रति,

विभागीय कृषि सहसंचालक,

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विषय- केंद्र पुरस्कृत बियाँग व लागवड सहायता उपचारमित्यान (SMSP) या योजने-अंतर्गत बियाँग प्रक्रिया व साड़वण केंद्र (सीड प्रोसेसिंग प्लॉट्स) उभारणीसाठी शेतकरी उत्पादक कंपनी (FPO)/ SHG/CIG/ सहकारी संघ/राज्य शासनाची मान्यता असलेली संस्था -- नव व प्रस्ताव सादर करणेचाचाची कार्यपदवी

संदर्भ - १. केंद्र शासनाचे पत्र क.१५-४/२०१७ एसडी ४, दि. १३/१०/२०१७
२. माग. संचालक (निव. व गुम्न) यांचे अध्यक्षतेचारी दि. २०/१०/२०१७ रोजी जाणली सामग्री.
३. माग. व्यवस्थापक संचालक, महाराष्ट्र राज्य छोटवा शेतक-यांचा कृषि व्यापार संघ, कृषि आयुक्तालय पुणे-५ यांचे पत्र जाकृ.कृष्यास/श.कृ.कृ./बियांग प्रक्रिया १३७/२०१७, दि. ३०/१०/२०१७
४. माग. संचालक (निव. व गुम्न) यांचे अध्यक्षतेचारी दि. ३१/०९/२०१८ रोजी जाणली सामग्री.
५. केंद्र शासनाची दि. २२/०१/२०१८ च्या पत्राच्या निगमित केलेल्या मार्गदर्शक सुचना

उपरोक्त संदर्भातील विषयावरून कठिनाच्या येथे की, संदर्भ क.२ अनेकाचे केंद्र शासनकडून प्राप्त जाणलेल्या सुचना व लागवडसाठी आयुक्तालय सरावचा मा. संचालक (निव. व गुम्न) यांचे अध्यक्षतेचारी सर्व संबंधित विषयातील अधिकारी-यांची दिनांक २०.२२.२०१७ व दि. २२.०२.२०१८ रोजी संस्थेचे बैठकीडून जाणलेल्या सर्वसार्थ चौंगुरसार व केंद्र शासनकडून दि. २२/०२/२०१८ च्या पत्राच्या निगमित केलेल्या मार्गदर्शक सुचनेसार माणसांच्या आपल्याच्या मुद्देमुळे कठिनाच्या येथे आहे. केंद्र शासनकडून मार्गदर्शक सुचना सोबत सहायीत करण्यात येत आहेत. या मार्गदर्शक सुचनेसार कार्यवाही करण्यात येतील.

कृषि क्षेत्रातील विविध पक्षांजवळ उपाध्याय व उपाध्याय काळी किती कृषि साधनाचे उपयोग व उपाध्यायाची वाढीतील कृषि-यांचा वस्तुचा व वाढता उत्पादन देणाऱ्या नारींची प्रमाणित /प्रत्याशा, वियांग उपलब्ध करण देणाऱ्या आवश्यकतेसह प्राप्त करणे होते आहे. यासाठी कृषि पालतील देश-यांचा विविध पक्षांचे नवीनता प्राप्त करणे आवश्यक होते. या दृष्टिकोणानुसार केंद्र सरकाराने राष्ट्रीय कृषि विनाश व राष्ट्रव्यावस्था अभियान (एनएसएम) अंतर्गत असलेल्या वियांग लागवड व सहायता उपचारमित्यान (एसएमएस) योजनेच्या मार्गदर्शक सुचनेनुसार ग्रामपंचायत सरावर शेतकरी उत्पादक कंपनी (FPO)/ SHG/CIG/ सहकारी संघ/राज्य शासनाची मान्यता असलेली संस्था यांच्याकडून ५०० मूळ एकुणे क्षमतेच्या वियांग प्रक्रिया व साडवण केंद्र उभारणीसाठी १०० टक्के केंद्र पुरस्कृत योजना सुरू करणे काहीवेळी आहेत. सदर योजनेचे अंतर्गत ग्रामपंचायत सरावर वियांग प्रक्रिया व साडवण केंद्र उभारणीसाठी रक्कम रू.६० लाखात किंवा प्रयत्न उभारणीसाठी खर्च धारी केला जे कमी असेल तिचेच अर्थसहयोग देणे आहे.

उपरोक्त प्रस्तावाने योजनेचे अधाराकडून केंद्र शासनकडून निर्णय उपलब्ध करण देणाऱ्याचा आवश्यक नाही. तथापि महाराष्ट्र राज्यासाठी ५० जीव शेतकरींचे केंद्र व साडवण केंद्र उभारणीसाठी भौगोलिक लक्ष्यांक केंद्र शासनाने डिलेटला आहे. केंद्र शासनकडून प्राप्त सुचनेसार आयुक्तालय सरावर मा. संचालक (निव. व गुम्न) यांचे अध्यक्षतेचारी दि. २०.१२.२०१७ रोजी संबंधित विषयाच्या अधिकार-यांसोबतच्या बैठकीडून चर्चा आयुक्तालयाच्या महाराष्ट्र राज्याला दिलेल्या लक्ष्यांकनुसार ५० पत्र व इंद्रुपणे शेतकरी उत्पादक कंपनी (FPO)/ SHG/CIG/ सहकारी संघ/राज्य शासनाची मान्यता असलेली संस्था यांचे प्रस्ताव संचालक (आत्मा), कृषि आयुक्तालय


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एकुण ५०

उपरेते प्रमाणे अपल्य विभागीय दिलेल्या लक्ष्यांकनासारख्या आपण, आपल्यांच्या अधिनस्तता असलेल्या जिल्हाच्या बाहेरीतल्या अनुकूल आपण सर्व बांधची विचार करून जिल्हाच्या लक्ष्यांमध्ये बाटली दिले कार्यरत असते व सर्व योजनेने अनुसार योजनेच्या कार्यानिर्देशानुसार विचार प्रस्ताूनी करून येतात.

संघभ ३ येथेच योजनेच्या अनुसार जिल्हाच्या लक्ष्यांमध्ये बाटली दिले कार्यरत असते व सर्व योजनेने अनुसार योजनेच्या कार्यानिर्देशानुसार विचार प्रस्तावासारख्या येतात.

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विषयां प्रक्रिया व साझेदारण केंद्र उभारणी योजना जिहातासारख प्रस्ताव छाननीच व शेतकऱ्या उपादक कंपनी निवडणुके ठकक निर्देश =

1. सदर योजनेसाठी बिविधां व लागवद साहित्य उप अभियंता या केंद्र पुरस्कृत योजनेचा मार्गदर्शक सुचना तसेच वेळोत्तेच केंद्र शासन व राज्य शासन यांच्येकडून निर्देश केलेला होणारा मार्गदर्शक सुचना लागू राहील.

2. विषयां प्रक्रिया केंद्रीय उभारणी ही कंपनी अधिनियम २०१३ कायदा अनुसार (अहसारों) करून नोंदित यासंगत शेतकरी उपादक कंपनी (FPO)/ SHG/CIG/ सहकारी संस्था/राज्य शासनाची मान्यता असलेली संस्था यांच्यासाठी कार्यानिर्देश याची.

3. शेतकरी उपादक कंपनी / उपरोक्त इतर तस्माद शासनांमय संस्था निवडताना त्यांची कार्यक्षेत्रता व यांची केलेली कार्यक्रमाचा अनुभव विवाहतात याचा तसेच यांचा मार्केट विविध करण्यास असलेले क्षेत्र व भविष्यवात त्यांच्यासाठी बिने विविध करण्यासाठी यासंगत शेतकरी उपादक कंपनी / उपरोक्त इतर तस्माद शासनांमय संस्था आरंभ आवश्यक दृष्टी सामान्य असावी व त्यांच्याकडून पुरेचे भागभागिने व माणूसांचे उपलब्ध असावे.

5. ज्या शेतकरी उपादक कंपनीकडे जास्तीत जास्त बिविध उपादक समाधान/ भाग धारक असावत. ज्या कंपनीने जास्तीत जास्त विविध करण्यासाठी कार्यक्रम कंपनी कार्यक्षेत्रात व समाधान/भागधारक शेतक-निर्माणाचे शेतकरी गेलेले आहे असा कंपनी निवडणुके यांच्यासाठी प्राध्यात्मक देयल्यास याचे.

6. उभारणी कार्यक्रम प्रक्रियांचा व साझेदारण केंद्र शासनीय अथवा प्रामाणिक व आगमनी यांच्यासाठी जास्तीत जास्त झालेले केंद्र उपादक कंपनी / उपरोक्त इतर तस्माद शासनांमय संस्थेच्या स्वतंत्रता नाही असलेल्या जागृतीसाठी असावे. पालकात्मक/ पाळकारांनी जतन उपलब्ध करून घेतलेली असत्याच ती प्राध्यात्म घर्त येणार नाही.

7. कंपनी कायदेनुसार निर्धारित केलेले सर्व अभिलेख उत्तम अनुसंधान-व लेखा परिक्षणाचा आहवानानुसार उपलब्ध असावा. शेतकरी उपादक कंपनी निवडणुके प्राध्यात्मक देयल्यास याचे.

8. बिविधां प्रक्रिया व साझेदारण केंद्र उभारणी ही १०० टक्के अनुमानित केंद्र पुरस्कृत योजना अनुसार याचाली ५०० चौि. तन कमलवेला बिविधां प्रक्रिया व साझेदारण केंद्रीय उभारणीच्या कार्यक्रमात असलेले यासाठी विविध उपादक कंपनी निवडणुके प्राध्यात्मक देयल्यास याचे.

9. सदर योजनेअंतर्गत रकम रु. ६५ लाख किंवा प्रत्येक उभारणीचा वेतनारा खर्च यांचे जोर असेल तर अर्थसंहार देखील येणार नाही. (यासाठी जीमिधी खर्च व त्वरता नोंदीच्या खर्च ३. समावेष करता घेणार नाही) सदर प्रकल्प उभारणीसाठी योजनेच्या अंतर्गत उपलब्ध होणारा अनुमोदनपेक्षा अधिक खर्च स्वतंत्र करून आहे. यासाठी बिविध उपादक साहित्य उप अभियंता या केंद्र पुरस्कृत योजनेचा मार्गदर्शक सुचना तसेच वेळोत्तेच केंद्र शासन व राज्य शासन यांच्येकडून निर्देश केलेला होणारा मार्गदर्शक सुचना लागू राहील.

10. बिविधां प्रक्रिया व साझेदारण केंद्र उभारणीसाठी प्रतिया राष्ट्रीय वृक्ष बंक कर्नाली निर्धारित (Bank linked) असाही बंडकरकार आहे. संबंधित शेतकरी उपादक कंपनी /उपरोक्त इतर तस्माद शासनांमय संस्थेच्या बिविधां प्रक्रिया व साझेदारण केंद्र उभारणीसाठी प्रतिया राष्ट्रीय बंककडून म्हणून वेतनांचा संबंधित करतात. व निर्धारित केलेल्या वेतनाच्या पुरवून होणारा कामनूनसाठी यांसाठी ती वापसी करून अनुसूच असावा ज्यामुळे अनुदानाची राष्ट्रीय वृक्ष बंक खात्यांचे निष्ठाफरमाणे जमा करण्यास येईल.

11. उपरोक्त सर्व निकष विवाहत घेण्या नित्याचारी समतासाठी निवड केलेल्या शेतकरी उपादक कंपनी / उपरोक्त इतर तस्माद शासनांमय संस्थेच्या बिविधां प्रक्रिया व साझेदारण केंद्रीय उभारणी पूर्णत: नव्याने करावली येईल.
आहे। व विवाणे प्रक्रिया व सातवान क्षेत्र कोणताही घटकास केंद्र व राज्य शासनाचे यापूर्वी इतर कोणत्याही योजनेतून अनुदान घेतलेले नसलेले। याप्रमाणे शेतकरी उपाधक कंपनीस्थूळ / उपरोक्त इतर तत्सम शासनाचा संस्थेचूक दिमागान घेणे यावे।

विभागीय कृषि सहसंस्थाल यांनी विभागास दिलेल्या लक्षकाचे जिल्हानिहाय लक्षक त्याच्या रूपांतर करावे। व लक्षकांमूर्तार  उपरोक्त यांनी जिल्हासरणारे नाहुने केलेल्या निकांमुखार पावळ शेतकरी उपाधक कंपनीची / उपरोक्त इतर तत्सम शासनाचा संस्थेचे निवड करून प्रस्ताव आयुक्तालयास विभागीय कृषि सहसंस्थाल यांचे माफ्फत पालिकागत यावे। जिल्हासरणाऱ्या लक्षकांमूर्ताऱ्या निवडपणात आलेले प्रस्ताव जिल्हासरणीय संचितीच्या मानदनाने संबंधित जिल्हाचा प्रकल्प संचालक (आतासे), यांची विभागीय कृषि सहसंस्थाल कायमाच्यासाठी पालिकागत यावे। विभागीय कृषि सहसंस्थाल यांनी आपल्या विभागाच्या लक्षकांमूर्ती अधिक राहून प्राध्यापक कर्मनिवास जिल्हानिहाय प्राप्त प्रस्ताव योग्य असल्याचे खास करून आयुक्तालय सरकार संचालक (नि व गुप्त) यांकडे आयुक्तालय सरकारी संचितीच्या मानदनात पालिकागत यावे। या प्रमाण विभागाने 19 या मार्च 2018 पर्यंत परिपूर्ण प्रस्ताव आयुक्तालयास सादर करण्याचा यावा।

विवाणे प्रक्रिया व सातवान क्षेत्रसाठी शेतकरी उपाधक कंपनीस्थूळ / उपरोक्त इतर तत्सम शासनाचा संस्थेचूक प्राप्त जळलेल्या व होणार्या प्रस्तावाच्या जिल्हासरणीय संचितीमध्ये निर्माणीत विभागाच्या निवड करण्याचा प्रस्ताव येणारे प्राप्त करून येणारे खायली अधिकारी माहिती/ आवश्यक कागदपत्र असल्याचे जिल्हासरणीय संचितीच्या मानदनाने खासी करावी।

१. शेतकरी उपाधक कंपनीबाबती संबंधित माहिती
   a. शेतकरी उपाधक कंपनीचे नाव / उपरोक्त इतर तत्सम शासनाचा संस्थेचे नाव
   b. कंपनी / तत्सम संस्था स्थापना दिनांक
   c. कंपनी संस्थेचे परीक्षण पत्ता
   d. कंपनीचे कार्यालयांतर्गत नंदी (ROC) केलेले नंदी क्रमांक / इतर तत्सम संस्थेचे नंदी क्रमांक
   e. कंपनीविषयक कार्यालयांतर्गत सदस्यांची नावे, फोन नं, इ-मेल इ. तपशील
   f. कंपनीसंस्थाने संघर्षांतर्गत व्यक्तीचे नाव, फोन नं, इ-मेल इ. तपशील

२. कंपनी कार्यांतर्गत नंदी (ROC) केलेले नंदी प्रमाणपत्राची सत्यता

३. प्रस्तावित प्रकारपासून शेतकरी उपाधक कंपनी / इतर तत्सम संस्था यांचा स्वतंत्र नाव असलेल्या जागेवर असावे। उपलब्ध करून येणारेचा जाणवून/जज्ञासाच्या सर्वसाधारण पुरावह राखून अधिकृत कागदपत्र याची सत्यता (उद्द. 7/२२)

४. उद्द. 7/२२ / भारताच्यात जाणने अवधारणेचे नंदी करून घेतलेली असल्याचे ती ग्राहक धरता येणार नाही.

५. केंद्र शासनाचे दिन. १३.१०.२०१७ व २२.०१.२०१८ या प्रकरणाने विविध प्रमाणपत्राची माहिती (Annexure-I)

६. (२) प्रकारचे अंदाजीप्रमाणेचे, (प्रकाराचे एकूण संवर्धन खर्च, बैंक रकम, अनुदान रकम, देय अनुदानपैकी जाते होणारा खर्च इ.)

७. (व) प्रकारचे प्रस्तावित नकाशा (Layout)

८. कंपनी / इतर तत्सम संस्थेचा राष्ट्रीय बैंक खाताचा तपशील ( बैंकचे नाव, पता, खाते क्र., IFSC code इ.)

९. कंपनी / इतर तत्सम संस्थेचा सर्वांचे अंकितकृत कानाच्या पुरावह अहवालाची सत्यता जोडण्यात यावी.

१०. कंपनी / इतर तत्सम संस्थेचा स्वतंत्र अंकितकृत खंबाची उपलब्ध असावी असलेल्या खर्चचा सत्यता / इतर तत्सम संस्थेचे हीमित्र

११. देय अनुदानपैकी अधिकृत होणारा खर्च कंपनीमाफ्फत / इतर तत्सम संस्थेमाफ्फत करणार असलेल्याचे कंपनीचे हीमित्र

Scanned by CamScanner
११. देय अनुदानाची रक्कम कंपनीच्या / इंद्र तत्सम संस्थेचा कर्जाच्या बँके खात्यावर निर्धारित टप्प्यानुसार कामपूर्तिच्यांतर वगैः करण्यास हरकत नसल्याबाबते कंपनीचे / इंद्र तत्सम संस्थेच संपत्तीतपूर्वक १२. उभारणी करायच्या बिघाणे प्रक्रिया व साधवण केंद्राच्या कोणत्याही घटकास यांनी कोणत्याही शासकीय योजनेपूर्वक अनुदान घेतलेले नाहीं व असे आइतून आल्यास अनुदानाची व्याजास वसूली व कायदेविरो मार्कशाळी करण्यास हरकत नसल्याचे कंपनीचे / इंद्र तत्सम संस्थेच प्रतिशत (१००/- रुपयांच्या स्टंप पेपरवर)

१३. निलहासीरीय समिती मार्कशाळी निकषनुसार निवड केलेल्या कार्यात्मक चयनपत्र.

केंद्र शासनाच्या निवड अनुसार उल्लेख होणार्या निमित्तात उपलब्ध उपलब्धतेनुसार आयुक्तात्य सर्वात निस्त्रील समितीच्या शिक्षाशीर्षक विभागीय कृषि सहसंचालक कार्यालयाकडून प्राप्त ज्ञान्यांचा योग एवढे पाडून प्रस्तावांमध्ये प्राधान्य करावासारखी चर्चा मान्यता देण्यास येईल व तसे क्षेत्रातील कार्यालयाच्या अवघड करण्यास येईल.

सर्वात वरील सुचनाप्रमाणे त्यातील कार्याच्या करारी व यांचे कोणतेही प्रस्ताव विभागीय कृषि सहसंचालक यांचे शिक्षाशीर्षक प्रशिक्षण घेणे आयुक्तात्याकडे पाठवू नयेत.

केंद्र व राज्य शासनाकडून वेळ्याच्या यासाठी ग्राहकसांच्या होणार्या निर्देशसाठी पुढील मार्गदर्शक सुचना देण्यास येईल.

संबत- वरीलप्रमाणे

कृषि संचालक (निर. व गुणित),
महाराष्ट्र राज्य, कृषि आयुक्तात्य विभाग.

प्रतीक्षी- आयुक्तक त्या कार्याच्या पहिला.

१. निल्हा अधिकारी कृषि अधिकारी (सर्व)
२. प्रकल्प संचालक, (आत्मा), सर्व

प्रत- १. माहिती संचालक (आत्मा), कृषि आयुक्तात्य, महाराष्ट्र राज्य, पुणे-५.
२. माहिती प्रकल्प संचालक, महाराष्ट्र राज्य छोटाया शेतक-यांचा कृषि व्यापार संघ, शिवाजीनगर,
कृषि भवन, पुणे-५.
३. कृषि उपसंचालक (आयुक्त कृषि कक्ष) कृषि आयुक्तात्य, पुणे
Establishment of new Seed Production, Processing cum storage Units at Gram Panchayat level as per recommendations of Group of Secretaries (GOS).

In order to establish new Seed Processing Units cum storage godowns, the following information has been furnished as detailed below;

**Seed Processing Units:**

Seed is an important agricultural commodity. Seed Processing is a vital part of the seed production needed to move the improved genetic materials of the plant breeder into commercial channels for feeding the rapidly expanding world population. It is a segment of the seed industry responsible for upgrading seed, improving planting condition of the seed and applying chemical protectants to the seed.

**Advantages:**

1. Make possible more uniform planting rates by proper sizing.
2. Improved seed marketing by improving seed quality.
3. Prevent spread of weed seed.
4. Prevent crops from disease by applying chemical protectants.
5. Reduces seed losses by drying.

Seed processing plant is designed based on the characteristics of seed grain and the impurities present in it, which need to be separated. It will be equipped with all the machines needed for successful cleaning and grading operation. Cleaner is the basic machinery in the plant and accordingly capacity of the plant is known by cleaner. Other machines, which work on the principle of separating the material based on difference in characteristics of good seed and impurities are included in the plant. Capacity of such machines are kept matching with that of cleaner to have effective utilization.

For set up of 1 TPH model estimation, the given line diagram shows the sequence of processing machinery to be installed. The plant machinery layout has been set up for model estimation of 1 TPH capacity processing unit is as below.
For installation of 1 TPH capacity of Seed Processing Plant, the following machines are to be used under consideration.

1, 3 & 5. Vertical Bucket Elevator.....3 Nos.
2. Seed Cleaner cum Grader.....1 No.
4. Seed Treater (in place of indented cylinder).....1 No.
6. Specific Gravity Separator (with additional one deck).....1 No.
7. Digital Electronic Weighing Machine (Platform type).....1 No.
8. Heavy Duty bag closing machine.....1 No.
9. Moisture Meter digital type.....1 No.
11. Air Compressor.....1 No.
12. Diesel Generator set.....1 No.
13. Storage Bin.....1 No.

Salient features and Technical Specifications of seed processing machineries

1, 3 & 5) Vertical Bucket Elevator:

Average throughout Capacity : 2 TON PER HOUR
Application : For conveying the seed to various processing machinery.

Specifications:
Capacity (Wheat basis) : 2 TPH
Casing Size : 450 x 200 mm
Bucket Size: 100 x 100 x 80 mm
Head Pulley Crown Type : 200 mm
Electric Drive : 2.0 HP, 3 Phase

Material of constructions:
1. Dump Hopper made up of 2 mm thick MS Sheet
2. Boot section made up of 3.2 mm MS Sheet & MS 40 x 40 x 5 mm
3. Leg casing made up of 1.6mm MS Sheet
4. Head Casing made up of 2.5mm MS Sheet
5. Belt 8" x 5 ply BIS confirming
6. Bucket of 1.6mm thick M. S. Sheet.
7. Discharge Pipe – made up of 2 mm Thick MS Sheet.
8. All shafts EN 31 grade alloy steel - Ø 40mm Dia.
Technical features:

1. Vertical Bucket Elevators work on centrifugal discharge principle and are ideal for elevating a variety of bulk materials economically, efficiently. It is extremely suitable for handling fine, free flowing materials. The head section and boot section are fabricated out of best quality tested sheet metal. These sections are dust and waterproof and are provided with handy inspection windows.

2. Rubber lining on inner side of head casing to prevent germination loss of seeds.
3. Head assembly will be provided with platform, railings, ladder and safety cage.
4. Specially designed take-up for belt tensioning.
5. Specially designed of boot section for 100% conveying of seed.
6. The best quality canvas belt is used to get long life.
7. Inspection windows are provided for inspection.
8. Bucket : 1.6 mm thick of M. S. Sheet
9. EN – 31 grade materials is used for shaft to give trouble free working specially at keyways & bearing seats.
10. Synthetic grease with heat resistance property is used.
11. Plummers block type double sealed bearings to prevent from dust.

2) Seed Cleaner cum Grader :

Average throughout Capacity: 1 TON PER HOUR
Application: This is a multipurpose machine, suitable for fine cleaning of all types of seeds such as cereals, pulses and oil seeds.

Specifications:

<table>
<thead>
<tr>
<th>Capacity (TPH)</th>
<th>1 TON PER HOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Screens (Five sets of additional screen)</td>
<td>Three Screens</td>
</tr>
<tr>
<td>Screen Size for scalping Width x Length (mm)</td>
<td>850 x 900</td>
</tr>
<tr>
<td>Screen Size for Grading Width x Length (mm)</td>
<td>850 x 1200 (2Nos.)</td>
</tr>
<tr>
<td>Aspiration Blower</td>
<td>6000 CFM</td>
</tr>
<tr>
<td>Overall Dimension L x H x W (mm)</td>
<td>1900 x 2200 x 1300</td>
</tr>
<tr>
<td>Gross Volume (m³)</td>
<td>7.56</td>
</tr>
<tr>
<td>Gross Weight (Kg.)</td>
<td>1000 Approx.</td>
</tr>
<tr>
<td>Electric Drive</td>
<td>5.0 HP, 3 Phase, 440V</td>
</tr>
</tbody>
</table>

Material of constructions:

1. Skeleton – 5” x 3” M.S. Heavy Channel
2. Oscillating Deck sides made in 2mm Thick M.S. CR Sheet
3. Cyclone Made in 2.0mm thick M.S. CR Sheet
4. Perforated sheet made in 1.2 mm thick MS Sheet & Hollow 20 x 20 mm MS Pipe 1.6 mm thick.
5. Blower casing made in 3mm & 8 mm thick MS Plate for motor foundation.
   a. Type of Blower: Backward inclined type impeller
   b. Pressure of Blower at Suction side – 85mm WG

6. Main Shaft
   a. Material – EN 8 Grade Alloy Steel
   b. Dia of Shaft – 40 mm

7. Rubber ball used for efficient screen cleaning

8. Bearing – TR make

9. Air Aspiration chamber made in 2mm thick MS Sheet.

10. The skeleton is made from heavy thickness MS Channel of different sizes.

11. The screen boat is also made from MS Sheet of different thickness.

Technical Features:

1. Screens: In most of the cleaners changing the screen is time consuming job.
2. The aspiration ducts: The ducts are painted white from inside. This gives a clear visibility to operator.
3. The screen hangers are made from high speed steel and they are properly heat treated to give trouble free service.
4. The aspiration fan is CNC laser cut and dynamically balanced to give vibration free and noiseless performance.
5. The use of cogged “V” belt and pillow block bearings gives maintenance free long service.
6. Double stage aspiration system for excellent cleaning of seeds.
7. All contactors are L & T make.
8. All the screens are provided with rubber ball type cleaning for peak performance all the time.
9. EN – 8 grade materials is used for shaft to give trouble free working especially at keyways & bearing seats.
10. Dead weights balances the imbalances caused due eccentricity.
11. Machine is compactly packed from all sides to protect moving parts from dust and foreign particles.
12. Air ventilation near belts keeps belts cool in long run.
14. All the screens structure is made of mild steel for longer durability.

4) Seed Treater (In place of Indented Cylinder):

Technical Specification:

1) Average throughout Capacity : 1 TON PER HOUR

2) Application : Ensures uniform coating of pesticides on each individual seed grain. This is essential in order to protect the seed against seed borne, soil borne diseases, etc.
3) Blending Chamber:
   - Length: 1500 mm
   - Height: 750 mm
   - Diameter: 150 mm

4) Treater:
   - Length (Overall): 1800 mm
   - Height: 950 mm
   - Width: 520 mm

5) Electric Drive
   - Blending Chamber: 2 HP, 3 Phase, 440 V AC
   - Treater: 1.5 HP, 3 Phase 440 V AC

Material of Construction:
1. Slurry tank made of 1.66 & 3 mm thick SS 316.
2. Seed Hopper made of 2.5mm thick SS Sheet.
3. Foundation made of M.S. Angle 50 x 50 x 6mm thick.
4. Mixing chamber & rotating mixing auger made of SS.

Technical Features:
1) Stainless steel construction ensures long machine life.
2) The counterweight measuring system is proven to be the most accurate one.
3) Because of minimum moving parts, machine is best suitable for continuous duty.
4) High speed rotating disc to ensure uniform coating.

6) Specific Gravity Separator (With additional One Deck):

Specifications:
1. Average Throughput Capacity: 1 TPH on wheat basis
2. Application: For separation of low grade seeds, this is ideal machine. The separation is done by density of the material, suitable for all types of seeds.
3. Deck size, Width x Length (mm): 1000 x 1500
4. Overall Dimension, L x W x H (mm): 2400 x 1200 x 1100
5. Gross Volume (m³): 3.2
6. Net Weight (Kg.): 800 Approx.
7. Electric Drive: 3 H.P.

Material of Construction:
   M.S. Sheet, Alloys Steel, High Speed Steel, Nylon.

Technical Features:
1. Skeleton – 75 x 75 x 6 mm M.S. Angle & 3mm Thick MS Sheet.
2. Blower Impeller made in Aluminum 3mm thick back plate
3. Shaft:
   a. Fan Shat – EN 8 Grade alloy steel – Ø 40mm Dia.
   b. Deck Shaft – EN 8 Grade alloy steel – Ø 40mm Dia.
5. Bearing – T.R. Make
6. Deck for large size seed wire mesh – 16 mesh size High Carbon Steel.
7. Deck for small size seed wire mesh – 28 mesh size Stainless Steel.

**Special Technical Features:**

1. The deck inclination of both directions can be easily adjusted as per requirement.
2. The deck oscillation speed can be increased or decreased by simply rotating a wheel while the machine is running.
3. The air adjustment is easy and has no problem of getting Jammed.
4. The oscillating plates take entire load of the deck assembly which gives machine stability.
5. The use of engineering plastic at all moving places gives long service and most importantly do not require any oiling or greasing.
6. The high speed steel wire mesh of deck has long life because of it has better wear & tear resistance as compare to ordinary wire mesh available in market.
7. Specially designed ALUMINUM fans which delivers more air with less power, as a result the machine has only 8 HP electric motor. This is lowest as compare to other makes.
8. EN – 8 grade materials is used for shaft to give trouble free working especially at keyways & bearing seats.
9. The stainless steel wire mesh is used for small size vegetable seeds deck.
10. Machine does not have cloth between oscillating deck and Gravity body. Rubber gasket in used for air proof operations.
11. Main frame is mounted on bearing on main shaft.
12. Filter bags will be attached for dust collection blower.

7) Digital Electronic Weighing Machine:

**Salient features**

- Capable of weighing seed from 10 kg. to 50 kg.
- PLC or Micro control based electronic controller
- It should be two ways feeding mechanism, one for course feeding and other for fine feeding to reduce the feeding time.
- It should have weighing pan and load cell.
- Voltage Stabilizer
- It should have outlet spout as per capacity.
- It should have four movable castor wheel to move it easily.

**Technical Specifications:**

1) Capacity : 1 TPH
2) Speed of weighing : 3 to 6 bags per minute
3) Feeding Bin : Feed hopper made up of 1.25 mm (18 gauge) Stainless steel
4) Weighing Pan : Stainless steel 1.25 mm (18 gauge) thickness
5) Load Cell: Preferably ADI/Cutter banner, LTLK or ISI standard capacity 5 to 50 kg.
6) Weighing capacity: It should be weigh up to 50 kg. without reduction ratio
7) Automation: Electronic sensor for starting the operations, start filling and dropping in the cloth/Jute/HDPE/PP containers.
8) Voltage Stabilizer: Preferably electronic circuit for voltage stabilization is required.
9) Outlet Spout: desired a hollow prism of a cone ending diameter to facilitate the filling of smaller and longer size cloth bags. Made of stainless steel of 1.25 mm (18 gauge)

8) Heavy Duty Bag Closing Machine

Technical Specifications:

1) Make: Revo/ Any other standard make preferable
2) Maximum sending speed: 1600-1800 stitches/Min
3) Dimensions: 12 inch H x 12 inch w x 13 inch D (30 cm x 30 cm x 30 cm)
4) Stitch length: 3.5 stitches/inch (25.4 mm) fixed
5) Maximum material thickness: 10 mm
6) Cutter type: Mechanical
7) Thread: Cotton or Synthetic thread cone
8) Space between paralled chain stitches: 8 mm
9) Power requirement: 220 v
11) Type of stitch: Double thread/Chain stitch
12) Closing speed: 5-8 Sec/bag
13) Type of bags: PP/PE, Hessian, Woven, polyester, Jute bags etc.

Technical features:

1) Enhanced feed mechanism.
2) Paralled chain stitch
3) Trouble free continuous operation
4) Safety in handle
5) Automatic thread cutter
6) Should have turning belt.
7) Should have pressure foot lifter and thread cone cover.
9) Moisture Meter digital type

Technical Specifications:

1) Moisture meter tested as per IS-8824-part-1 1978
2) Moisture meter is calibrated and tested as per IS.
3) Measuring range : 0 % to 40 %
4) Moisture sensitivity : +/- 0.2 %
5) Power consumption : 0.03 Watts Approx.
6) Power requirement : Four pencil cells.
7) Sample size : 250 cc Approx.
8) Size of meter : 125 mm H x 150 mm W x 210 mm D (Approx.)
9) Weight of the meter : Less than one kilogram.
10) Measurement time : One sample per min.

Technical features

1) Automatic in-built temperature compensation provided.
2) LOBAT/BAT indication on display if pencil cells are weak/down.
3) ABS molded body for rugged used in field and for longer life.
4) No mechanical moving parts hence no wear and tear maintenance free operation for long duration. Non-destructive sample testing.

11) Air Compressor

Salient features

➢ V Belt drive consisting of Compressor pulley.
➢ Motor pulley and V Belt
➢ Belt Guard, Inter filter, Pressure Switch
➢ Inter storage safety valve
➢ Air receiver with safety valve, service valve
➢ Pressure gauge
➢ Drain plug motor TEFC suitable for 415 v A C 50 Hz with DC motor

Technical Specifications:

1) Capacity piston displacement : 310 to 360 Lit/Min
2) Working pressure : 14 kg./m² to 17.5kg/m²
3) Motor HP : 2 to 3 HP
4) Receiver Capacity : 150 to 200 Litres
5) Compressor rpm : 700 rpm
6) Control : Auto start stop control.
7) No. of stages : Two
8) No. of cylinders : Two
9) Air Delivery Hose (pressure pipe) : Inner dia 10 mm, length – 50 m
12) Diesel Generator Set (25 KVA)

Salient features

- It should have ease to access and serviceability.
- Aesthetically design, weather and sound resistance enclosures
- Well insulated to avoid flammability
- Controller - Micro processor based
  - Graphical LCD display

Technical Specifications:

1) Capacity : 25 KVA
2) Electric supply : 3 Phase, 415 volts
3) Rated speed : 1500 rpm, 50 Hz
4) Current : 70 A
5) No. of cylinder : 4
6) Aspiration : Turbo charged, charge Air cooled.
7) Starting system : 12 Volt DC electrical
8) Engine make : Cummins/ Kirloskar/Any other standard make engine preferable.

13) Storage Bin:

Specifications:

1. Average Throughput Capacity : 1 TON ON WHEAT BASIS
2. Application : To Hold / store all types of seeds
3. Discharge Height : As per side requirement
4. Hopper Bottom Degree : 45°

Material of Construction:

1) The side made of 1.6 mm and hopper bottom made of 2 mm MS sheet & 65 x 65 x 6 MS angle for stiffness.
2) Bin installed on MS channel 4 x 2 with MS angle 50 x 50 x 6 mm reinforcement & 12mm MS plate 150 x 150 mm size with 20mm hole used for foundation bolt. For level indication glass window will be fitted on Hopper bottom.
3) 5 mm thick MS plates are welding at each corner inside the bin body.

Technical Features:

1. The rack & pinion arrangement is very easy to operate and reliable.
2. Big size glass window as “Level indicator” in bin is provided.
The above machinery are to be used to set up for installation of model of 1 TPH processing unit and it is necessary to be implemented for better processing facility for good quality of seed.

Praful T. Tayade  
Plant Engineer (HQ)

Prashant G. Pagrut  
Sr. Agril. Engineer (HQ)

Anil T. Chopade  
General Manager (P & E)
"GENERAL REPORT"

NAME OF WORK: CONSTRUCTION OF GODOWN (15.00m X 30.00m)

Estimated Cost: Rs. 3963966.00 (Excluding GST & Royalty Charges)

Necessity: For storage of seeds received from the farmers/growers, processed seed for the marketing purpose & supply to the farmers.

Provision:
- Plinth: Plinth height considered 1.15 M. above general ground level filling hard murum, 80 mm metal sulling 20 cm., Angular broken glass pieces to restrict the entry of rodent, Sand 15 cm, PCC 1:4:8 bed concrete 10cm.
- Flooring: Trimex flooring in M-15/ (1:2:4) cement concrete 100 mm thick with floor hardner with groove cutting @ 4.0 M. Both way.
- Superstructure: Brick masonry in cement mortar 1:6 with plaster innerside-12mm thick in 1:5 with neeru & outsiderside-20mm thick plaster in 1:5
- Roof: Trussless roof with PPGL sheet 1.00mm thick
- Doors: M. S. Rolling shutters 2.0m x 2.50m (3 Nos)
- Ventilator: Z type ventilator with 6 mm thick wired glass at sill level and below tie beam level 2.0m x 0.75m (33Nos)
- Colouring: Waterproof cement paint externally & White wash internally

Site of Building:

Rates: As per S.S.R. 2017 - 2018 excluding lead charges of materials

Specification: The work will be executed as per standardized specifications of P. W. D. Govt. of Maharashtra.

NOTE:

Civil Engineer,
M.S.S.C.L. Akola.

Villas U. Gawande
Dy. Engineer (Civil)
M.S.S.C. Ltd., Akola.

A. T. Chopde
General Manager (P & E)
M.S.S.C.L. Akola.
NAME OF WORK : CONSTRUCTION OF GODOWN (15.00m X 30.00m)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description of Items.</th>
<th>No. or Quantity</th>
<th>Unit</th>
<th>Estimated Rate</th>
<th>Amount.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m, beyond the building area and stacking or spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering, including shoring and strutting as necessary complete. [Spec. No. : BdA. 1, Page No. 259]</td>
<td>62.00 Cum.</td>
<td></td>
<td>136.00</td>
<td>8432.00</td>
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<tr>
<td>2</td>
<td>Excavation for foundation in hard murum including removing the excavated material up to distance of 50 meters beyond the building area and stacking or spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. [Spec. No. : BdA. 2, Page No. 259]</td>
<td>18.00 Cum.</td>
<td></td>
<td>169.00</td>
<td>3042.00</td>
</tr>
<tr>
<td>3</td>
<td>Excavation for foundation in hard murum &amp; boulders including removing the excavated material up to distance of 50 meters beyond the building area and stacking or spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. [Spec. No. : BdA. 3, Page No. 259]</td>
<td>18.00 Cum.</td>
<td></td>
<td>156.00</td>
<td>2808.00</td>
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<tr>
<td>4</td>
<td>Providing and filling in the foundation and plinth with sand of approved quality including watering, compaction complete. [Spec. No. : BdA. 13, Page No. 264]</td>
<td>67.50 Cum.</td>
<td></td>
<td>1257.00</td>
<td>84848.00</td>
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<tr>
<td>5</td>
<td>Providing and laying broken bottle/ plain glass angular pieces in layer of 25 mm thick including transportation, loading, unloading, spreading at site as per the direction of Engineer-in-charge. [Spec. No. : As directed by Engineer-in-charge]</td>
<td>9.00 M.T.</td>
<td></td>
<td>5020.00</td>
<td>45180.00</td>
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<tr>
<td>6</td>
<td>Providing soling using 80 mm size granite / quartzite / gneiss / trap metal in 15 cm. layer including hand packing filling voids with sand / grit, ramming, watering etc. complete. [Spec. No. : As directed by Engineer-in-charge]</td>
<td>90.00 Cum.</td>
<td></td>
<td>699.00</td>
<td>62910.00</td>
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<tr>
<td>7</td>
<td>Filling in plinth and floors with contractors approved material / murum in 15 cm. to 20 cm. layers including watering and compaction complete. [Spec. No. : BdA.11, Page No. 263]</td>
<td>270.00 Çum.</td>
<td></td>
<td>276.00</td>
<td>74520.00</td>
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<td>Sl. No.</td>
<td>Description of Items.</td>
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<td>Estimated Rate</td>
<td>Amount.</td>
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<tr>
<td>8</td>
<td>Providing and casting in situ cement concrete M-15 of trap/granite/quartzite/gneiss metal for coping to plinth or parapet, moulded off as per drawing or as directed including steel centering, plywood, steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing, etc. complete. The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (wooden centering will not be allowed) [Spec. No.: Bd.E. 3 Page No. 288 / I.S. 456 (2000)]</td>
<td>0.70</td>
<td>Cum.</td>
<td>5075.00</td>
<td>3553.00</td>
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<tr>
<td>9</td>
<td>Providing and laying in situ cement concrete 1:4:8 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water, plywood/steel form work, compacting, finishing uneven and honeycombed surface curing etc. complete. The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (wooden centering will not be allowed) [Spec. No.: Bd.E. 1 Page No. 287 / I.S. 456 (2000)]</td>
<td>51.00</td>
<td>Cum.</td>
<td>3604.00</td>
<td>183804.00</td>
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<tr>
<td>10</td>
<td>Providing and laying in situ cement concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions including bailing out, water, plywood/steel formwork, compaction, curing and roughening the surface if special finish is to be provided, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface etc. complete. (Excluding reinforcement and structural steel, including cover block) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed) [Spec. No.: Bd.F.3 Page No. 298 / I.S.456(2000) ]</td>
<td>25.10</td>
<td>Cum.</td>
<td>4907.00</td>
<td>123166.00</td>
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<td>Sl. No.</td>
<td>Description of Items.</td>
<td>No. or Quantity.</td>
<td>Unit</td>
<td>Estimated Rate Figure.</td>
<td>Estimated Rate Words.</td>
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<tr>
<td>11</td>
<td>Providing and casting in situ cement concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, plywood/steel form work, compaction, finishing uneven and honeycombed compaction, to give smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. As directed by Architect. (Excluding reinforcement, including cover block) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed) [Spec.No.: Bd.F.5 Page No. 300/IS:456(2000)]</td>
<td>17.85</td>
<td>Cum.</td>
<td>7514</td>
<td>Seven Thousand Five Hundred Fourteen Rupees</td>
</tr>
<tr>
<td>12</td>
<td>Providing and casting in situ cement concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C. beams &amp; lintels as per detailed designs and drawing or as directed including steel centering, plywood/steel form work, compaction, finishing uneven and honeycombed compaction, to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. As directed by Architect. (Excluding reinforcement, including cover block) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed) [Spec.No.: Bd.F.6 Page No. 300/IS:456(2000)]</td>
<td>42.60</td>
<td>Cum.</td>
<td>6741</td>
<td>Six Thousand Seven Hundred Forty One Rupees</td>
</tr>
<tr>
<td>13</td>
<td>Providing and casting in situ cement concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C. chajja &amp; Ratrack as per detailed designs and drawing or as directed including steel centering, plywood/steel form work, compaction, finishing uneven and honeycombed compaction, to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. As directed by Architect. (Excluding reinforcement, including cover block) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed) [Spec.No.: Bd.F.9 Page No. 303/IS:456(2000)]</td>
<td>11.80</td>
<td>Cum.</td>
<td>8829</td>
<td>Eight Thousand Eight Hundred Twenty Nine Rupees</td>
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<tr>
<td>14</td>
<td>Providing and fixing in position TMT Bar reinforcement of various diameters for</td>
<td>12.40</td>
<td>M.T.</td>
<td>46309.00</td>
<td>574232.00</td>
</tr>
<tr>
<td></td>
<td>R.C.C. pile caps, footings, foundations, slabs, beams, columns canopies, staircase,</td>
<td></td>
<td></td>
<td>Forty Six Thousand Three Hundred Nine Rupees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>newels, chajjas, lintels, parids, copings, fins, arches etc. as per detailed designs,</td>
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<tr>
<td></td>
<td>drawings and schedules including cutting, bending, hooking the bars, binding with</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>wires or tack welding and supporting as required etc. complete. [Spec. No. : Bd. F. 17</td>
<td></td>
<td></td>
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<td>Page No 306.]</td>
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<tr>
<td>15</td>
<td>Providing second class Burnt brick masonry with conventional/l. S. type bricks in</td>
<td>21.00</td>
<td>Cum.</td>
<td>4653.00</td>
<td>97713.00</td>
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<tr>
<td></td>
<td>cement mortar 1:6 in foundations and plinth of inner walls/ in plinth of external</td>
<td></td>
<td></td>
<td>Four Thousand Six Hundred Fifty Three</td>
<td></td>
</tr>
<tr>
<td></td>
<td>walls including bailing out water, striking joints on unexposed faces, racking out</td>
<td></td>
<td></td>
<td>Rupees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>joints on exposed faces and watering complete. [Spec. No. : Bd. G. 1. Page No. 313]</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>16</td>
<td>Providing second class Burnt brick masonry with conventional/l. S. type bricks in</td>
<td>84.20</td>
<td>Cum.</td>
<td>4804.00</td>
<td>404497.00</td>
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<td></td>
<td>cement mortar 1:6 in superstructure including striking joints, racking out joints</td>
<td></td>
<td></td>
<td>Four Thousand Eight Hundred Four Rupees</td>
<td></td>
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<tr>
<td>17</td>
<td>Providing cement plaster 12 mm. thick in single coat in cement mortar 1:5 with neenu</td>
<td>452.70</td>
<td>Sq.m.</td>
<td>174.00</td>
<td>78770.00</td>
</tr>
<tr>
<td></td>
<td>finish, in all positions including scaffolding &amp; curing etc. complete. [Spec. No. :</td>
<td></td>
<td></td>
<td>One Hundred Seventy Four Rupees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bd. L. 4. Page No. 368]</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>18</td>
<td>Providing cement plaster 20 mm. thick in single coat in cement mortar 1:5 with neat</td>
<td>73.30</td>
<td>Sq.m.</td>
<td>359.00</td>
<td>26315.00</td>
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<tr>
<td></td>
<td>cement finish, in all positions including scaffolding &amp; curing etc. complete. [Spec.</td>
<td></td>
<td></td>
<td>Three Hundred Fifty Nine Rupees</td>
<td></td>
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<td></td>
<td>No. : Bd. L. 4. Page No. 368]</td>
<td></td>
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<tr>
<td>19</td>
<td>Providing cement plaster 20mm thick externally in two coats in cement mortar 1:5</td>
<td>760.80</td>
<td>Sq.m.</td>
<td>322.00</td>
<td>244978.00</td>
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<tr>
<td></td>
<td>without neenu finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete. [Spec. No. : Bd. L. 7 Page No. 369]</td>
<td></td>
<td></td>
<td>Three Hundred Twenty Two Rupees</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Providing groove to required size at specified location as directed by Engineer, at</td>
<td>188.00</td>
<td>Rmt.</td>
<td>28.00</td>
<td>5264.00</td>
</tr>
<tr>
<td></td>
<td>junction of brick masonry wall and R.C.C. beams or column, at junction of composite</td>
<td></td>
<td></td>
<td>Twenty Eight Rupees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>masonry, including scaffolding, finishing curing etc. complete. [Spec. No. : As directed by Architect &amp; Engineer-in-charge]</td>
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<tr>
<td>Sl. No.</td>
<td>Description of Items.</td>
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<td>Estimated Rate</td>
<td>Amount.</td>
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<tr>
<td>21</td>
<td>Providing and laying in situ <strong>Trimix cement concrete M-15 (1:2:4)</strong> of trap / granite / quartzite / gneiss metal for flooring 10 cm thick with Trimix vacuum dewatering method including all required machinery like centering channel, poker vibrator. Surface vibrator vacuum dewatering apparatus. Skim floater etc. including levelling with Trimix surface vibrator, immediately after vacuum dewatering the surface &amp; power floated with skim floater cutting joints and filling with butuminous including mixing hardner non matlic floor hardner Dr. Fixit Pidi top / Roofit / Sika Company or other standered reupted company etc. Two Kg./Sq.m. curing cleaning etc. complete as directed by Engineer-in-charge with placing side centering of M. S. Chanel 10 cm side vertical with curing complete including cutting and making groove by machine cut &amp; filling groove by bitumen asphalt etc. complete. [Spec. No. : As directed by Architect &amp; Engineer-in-charge]</td>
<td>450.00</td>
<td>Sq.m.</td>
<td>490.00 Four Hundred Ninety Rupees</td>
<td>220500.00</td>
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<tr>
<td>22</td>
<td>Providing and applying <strong>white-wash in two coats</strong> on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down complete. [Spec. No. : Bd.P. 1. Page No. 411]</td>
<td>452.70</td>
<td>Sq.m.</td>
<td>8.00 Eight Rupees</td>
<td>3622.00</td>
</tr>
<tr>
<td>23</td>
<td>Providing and applying <strong>one coat of seal cement primer</strong> of approved manufacture and shade including scaffolding preparing the surface by cleaning dirt and other foreign matters, scrapping if necessary including scaffolding etc. complete. [Spec. No. : As directed by Engineer-in-charge]</td>
<td>834.10</td>
<td>Sq.m.</td>
<td>15.00 Fifteen Rupees</td>
<td>12512.00</td>
</tr>
<tr>
<td>24</td>
<td>Providing and applying <strong>two coats of water proof cement paint</strong> of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days complete. [Spec. No. : Bd.O. 8. Page No. 406]</td>
<td>834.10</td>
<td>Sq.m.</td>
<td>49.00 Forty Nine Rupees</td>
<td>40871.00</td>
</tr>
<tr>
<td>25</td>
<td>Providing <strong>structural steel work in trusses</strong>, other similar trussed members with all bracing, strutt members, spacer plate, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, making holes, making riveted / bolted / welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting complete. [Spec. No. : Bd.C. 8. Page No. 278]</td>
<td>0.40</td>
<td>M.T.</td>
<td>48255.00 Forty Eight Thousand Two Hundred Fifty Five Rupees</td>
<td>19302.00</td>
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<td>Sl. No.</td>
<td>Description of Items.</td>
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<td>Amount.</td>
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<tr>
<td>26</td>
<td>Providing <strong>structural steel work</strong> in rolled sections, fixed with connecting plates or angle channel cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members / cladding and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it 2 coats of oil painting complete. [Spec. No.: Bd.C. 3, Page No. 275]</td>
<td>0.60</td>
<td>M.T.</td>
<td>61210.00</td>
<td>36726.00</td>
</tr>
<tr>
<td>27</td>
<td>Providing and fixing <strong>prepainted galvanised iron semi corrugated (Trafford type) PPGI Sheet</strong> of (0.63 mm) thickness for cladding with wind ties of M. S. at end &amp; middle position including fastening with galvanised iron self drilling tapping threaded screw with bolts with bitumen washer as per drawing and design etc. complete by fixing electric drilling machine As directed by Engineer-in-charge.</td>
<td>27.50</td>
<td>Sq.m.</td>
<td>500.00</td>
<td>13750.00</td>
</tr>
<tr>
<td>28</td>
<td>Providing &amp; fixing at site self supported trussless pre painted galvalume roof structure alike proflex system with unobstructed span 15.0 M (TCT 1.00 mm thickness) having arch rise of 16% for full span structure design for roofing system to withstand the wind load and deed load as per IS 875 part 3 and Earthquake load as per IS 1893 A sheet for structure off white top colour &amp; grey bottom colour and light green colour roof structure at 5.00 m interval PPGL material of base metal thickness should be 1.0 mm thick minimum or as specified by standarded self supported roofing company. The PPGL sheet shall be 3 feet (914 mm) width, which shall be curved &amp; moulded at site using mechanical press and dies to desire curves &amp; shape to form 2 feet (605 mm) approximate wide interlocking panels, to close seam foaming water tight joints, Minor colour chipping/ scratching shall be rectified by applying epoxy lacquer. Errection and fixing of seamed sheet, Anchor fastening of axel/ Hilt/ any other standarded make fitting/ standard make having diameter of metal bolt 12 mm dia having 150 mm length two bolts per panel (605 mm wide) on each side of panel in zig zag pattern and 3 bolts for 5 panels starting and ending sides, including all labour, scaffolding required suitable capacity of cranes for fixing including all necessary fixture &amp; fastening all accessories electrical hangers, clamps for electrical fittings etc. complete. Including all incidental charges such as electrical/ water etc. complete with lead and lifts with Performance Bank guarantee of ten years of equal amount of contract value of roof.</td>
<td>550.00</td>
<td>Sq.m.</td>
<td>1451.00</td>
<td>798050.00</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Description of Items.</td>
<td>No. or Quantity</td>
<td>Unit</td>
<td>Estimated Rate</td>
<td>Amount.</td>
</tr>
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<tr>
<td>29</td>
<td>Providing and fixing <strong>Z-type (Staggered) steel ventilator</strong> fully glazed with Z-section of 10 gauge and fixing welded mesh 25 X 25 mm 12 gauge as per detailed drawing with outer frame of Z-section including two 12 mm square bar in each panel, fabricating, glazing with 6 mm thick wire glass and of approved type and quality and fastening and oil painting two coats etc. complete. [Spec. No.: As directed by Engineer-in-charge]</td>
<td>49.50</td>
<td>Sq.m.</td>
<td>2502.00</td>
<td>Two Thousand Five Hundred Two Rupees</td>
</tr>
<tr>
<td>30</td>
<td>Providing and fixing <strong>rolling shutter</strong> fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer</td>
<td>17.82</td>
<td>Sq.m.</td>
<td>2856.00</td>
<td>Two Thousand Eight Hundred Fifty Six Rupees</td>
</tr>
<tr>
<td>31</td>
<td><strong>Compacting the hard murum / kankar for all widths (200 mm. loose) with power roller</strong> including necessary, labour materials and artificial watering complete. [Spec. No.: Rd.38 Page No. 210]</td>
<td>900.00</td>
<td>Sq.m.</td>
<td>10.00</td>
<td>Ten Rupees</td>
</tr>
<tr>
<td>32</td>
<td><strong>Compacting the gravel 80 mm metal (200 mm loose) layers</strong> for all widths with power rollers including necessary, labour, materials and artificial watering complete. [Spec. No.: Rd.32 Page No. 205]</td>
<td>450.00</td>
<td>Sq.m.</td>
<td>10.00</td>
<td>Ten Rupees</td>
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<tr>
<td>33</td>
<td>Providing and fixing in position **unplasticized poly venyl-chloride (UPVC) ultra violet rays stabilised 110 mm outer diameter rain water SWR Pipe conforming to I.S. 4985 and I.S.13592, including necessary fittings, such as PVC grating, bends, with door, PVC clamps, horse shoes at bottom, rubber ring and making connections water tight with solvent, cement including making holes in masonry concrete redoing the same in C.M. 1:3, curing, testing etc. complete. [Spec. No.: As directed by Engineer-in-charge]</td>
<td>84.00</td>
<td>Rmt.</td>
<td>348.00</td>
<td>Three Hundred Forty Eight Rupees</td>
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<tr>
<td>Sl. No.</td>
<td>Description of Items.</td>
<td>No. or Quantity</td>
<td>Unit</td>
<td>Estimated Rate</td>
<td>Amount.</td>
</tr>
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<tr>
<td>34</td>
<td>Providing and casting in situ cement concrete M-20 grade of trap/granite/gneiss/quartzite metal for <strong>R.C.C. Pardi 100 mm thick</strong> including steel centering, plywood / steel formwork, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening them if special finish is to be provided and curing etc. complete. The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) (Wooden centering will not be allowed). [Spec. No.: Bd. F. 11. Page No. 304 / I.S. 456 (2000)]</td>
<td>3.00</td>
<td>Cum</td>
<td>9539.00</td>
<td>Nine Thousand Five Hundred Thirty Nine Rupees</td>
</tr>
<tr>
<td>35</td>
<td>Providing and applying <strong>water proofing treatment to Gutter Slab</strong>, in all directions by using standard acrylic copolymer coating of Roff Hyguard, Monopol 456 in three coats including cleaning the surface by wire brush, washing and drying including covering guarantee of 10 years on court stamp paper of Rs. 100/- and as directed by Engineer in charge etc. complete. [Spec. No.: As directed by Engineer-in-charge]</td>
<td>30.50</td>
<td>Cum</td>
<td>711.00</td>
<td>Seven Hundred Eleven Rupees</td>
</tr>
</tbody>
</table>

Rs. Thirty Nine Lac Sixty Three Thousand Nine Hundred Sixty Six Rupees

Total = Rs. 3963966.00

A. E. Kalk
e-Sr. Engg.

T. B. YESANSURE
Junior Engineer (Civil)
M. S. S. C. LTD., AKOLA

A. T. CHOPADE
General Manager (P&E)
M. S. S. C. Ltd., Akola.
SELF SUPPORTED
ROOF

R.C.C. FOOTING M-20 GRADE
100 MM THICK P.C.C. 1:4:8

SECTION - 'A-A'

100 MM THICK TRIMEX FLOORING
100 MM THICK P.C.C. 1:4:8
200 MM THICK 80 MM FILLING
150 MM THICK SAND & BROKEN GLASS 20 KG/SQM.
HARD MURUM FILLING AS PER GROUND LEVEL (600 mm)

FRONT ELEVATION

Villas U. Gawande
Dr. Engineer (Civil)
M. S. S. C. Ltd., Akola.

T.B. YESANSURE
Junior Engineer (Civil)
M. S. S. C. LTD., AKOLA

A. T. CHOPADE
General Manager (P&E)
M. S. S. C. Ltd., Akola.