

National Mission on Himalayan Studies

PERFORMA FOR THE HALF YEARLY PROGRESS REPORT
(Period from 01.04.2016 to 30.09.2016)

Project Title -: **Development of psychrophilic earthworms for biowaste conversion & utilization in Guraz & Tulial Valleys of Jammu & Kashmir.**

Sanction No. and date -: NMHS/SG-2016/018/381 : Dated. 31.03.2016

Institution Name-: Sher-e-Kashmir University of Agricultural Sciences & Technology, Shalimar, Srinagar, J&K.

Personal Details -:

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| Name and Address of the PI-: Dr. Tahir Ahmad Sheikh, Assistant Professor (Agronomy), Division of Agronomy, Faculty of Agriculture, Wadura Sopore, J&K |
| Name and Address of the Co PI-: Dr. Zahoor Ahmad Baba Sr. Scientist (Soil Microbiology) Regional Research Station, Wadura, Sopore, J&K |

Partner Details-:

| Sl No | Name/ Address | Work assigned to partners | Fund allocated to partners during the period |
|-------|--|--|--|
| 01. | Sub Divisional Agricultural Officer, Dawer, Guraz. Department of Agriculture J&K Govt. | <ul style="list-style-type: none">➤ Facilitate the identification of progressive farmers of Guraz & Tulial sub divisions of Distt. Bandipora➤ To facilitate the construction of biowaste conversion units.➤ To help in dissemination of technology among farmers at large scale. | N/A |

Project Objectives -:

- Collection, identification and maintenance of dominant species of earthworms from different habitats of Guraz & Tulial valleys of the region.
- Screening & development of efficient psychrophilic earthworm species for their exploitation in sustainable biowaste degradation within the valleys and utilization of vermicompost for agricultural land to quickly regenerate and improve the soil structure.
- Demonstrate methodologies employed & skill development among farmers.

Completion in the last six months in % (According to each Deliverables)-:

| Sl No | Quantifiable Deliverables (as per sanction letter) | Output/ achievements | Performance in terms of Monitoring indicators | Remarks |
|-------|--|---|--|---------|
| 01. | Development of pilot scale cost effective model to convert biodegradable wastes (animal, vegetable, other bio wastes) into a useful soil amendment that could be added to agricultural land. | <ul style="list-style-type: none">➤ Wastes samples were collected from different sources and segregated for their conversion into soil amendment.➤ Earthworms were also collected from cold places of Guraz (Kanzalwan, Dawar) & maintained for further multiplication➤ In the first phase, seven different locations were identified for construction of biowaste conversion units at institutional and farmers level in Guraz & Tulial.➤ Laisoning with Department of Agricultural officers to exchange the information of biowaste conversion and to facilitate other project activities. | A low-cost model for biowaste conversion to be constructed at Guraz & Tulail was prepared and submitted to competent authority for approval. | |

Summary of progress -: (with in 200 words)

- The activities under first phase of project were executed smoothly in Guraz & Tulial sub-divisions of Distt. Bandipora.
- The supporting staff was recruited as per the sanction order of project.
- Waste samples were collected from different institutions and households of Dawar and Tulial areas and were further segregated as biodegradable & non-biodegradable.
- Samples of earthworms were collected from different cold habitats of Guraz and are maintained under mixed biowastes for further acclimatization and multiplication.
- The same culture will be used in future for biowaste conversion under proposed units at different location of Guraz & Tulial.
- In the first phase, 20 progressive farmers were indentified and convened for biowaste conversion and its utilization for crop production & soil health
- For construction of Biowaste conversion units' seven different locations in Dawar & Tulial were identified in collaboration with Department of Agriculture, Guraz.

Supporting data files/ maps/ tables/ figures of the results to be attached

Name of the PI-: **Tahir Ahmad Sheikh**



Signature -:

Date-: 24.11.2016

Online Webpage Information of NMHS Project

Project Title: Development of psychrophilic earthworms for biowaste conversion & utilization in Guraz & Tulial Valleys of Jammu & Kashmir.

Name of PI: Dr. Tahir Ahmad Sheikh,

Project Partner Details:

| S. No. | Name of the Partner | Roles & Responsibilities | Budget sanctioned |
|--------|--|--|-------------------|
| 01. | Sub Divisional Agricultural Officer, Department of Agriculture Dawar, Guraz, Bandipora | <ul style="list-style-type: none"> ➤ Facilitate the identification of progressive farmers of Guraz & Tulial sub divisions of Distt. Bandipora ➤ To facilitate the construction of biowaste conversion units. ➤ To help in dissemination of technology among farmers at large scale. | N/A |

Project Activities Chart:

| PROJECT ACTIVITY | TIMEFRAME | DELIVERABLE |
|--|--------------------------|---|
| Appointment of supporting staff, Survey of the target area & Collection of waste samples & keep it for precomposing, Collection of earthworms from cold habitats | 01.04.2016 to 30.06.2016 | <ul style="list-style-type: none"> ➤ The supporting staff under the project was appointed as per sanction order. ➤ Waste samples collected from Dawar & Tulial valleys of Guraz and was heaped to overcome the heating period. ➤ Local earthworms were also collected from cowdung heaps, garbage sites of Kanzalwan and Dawar areas of Guraz. |
| Liaisoning with Department of | 01.07.2016 to 31.07.2016 | Department of |

| | | |
|---|--------------------------|--|
| Agricultural to exchange the information. Collection of earthworms from cold habitats of Guraz | | Agriculture Guraz has facilitated the identification of 20 progressive farmers |
| Identification of beneficiary farmers/ institutions & training programmes conducted | 01.08.2016 to 31.08.2016 | Training programmes of 20 progressive farmers were also conducted on biowaste conversion, within the initial phase |
| Identification of locations at department & farmers level for construction of biowaste conversion units | 01.09.2016 to 30.09.2016 | Seven different locations in Dawar & Tulial were identified in collaboration with Deptt. of Agriculture for construction of biowaste conversion units. |

Equipment Details: N/A

| S. No. | Name of Equipment | Use of Equipment | Cost (in INR) |
|--------|-------------------|------------------|---------------|
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Manpower Details:

| S. No. | Name | Qualification | Designation | Salary |
|--------|-----------------------|--------------------|-----------------|-------------|
| 01. | Dr. Sartaj Ahmad Wani | Ph.D Soil Sciences | Field Assistant | Rs. 12000/= |
| 02. | Mr. Farhat Hamid | Matric | Skilled worker | Rs. 5000/= |



PI