



*GOVERNMENT OF HIMACHAL PRADESH
DEPARTMENT OF AGRICULTURE*

OPERATIONAL GUIDELINES
for
IMPLEMENTATION
of
PANDIT DEEN DAYAL
KISAN BAGWAN SAMRIDHI YOJNA
in
HIMACHAL PRADESH
(Part-I)

**(Production of Cash Crops through Adoption of
Precision Farming Practices in Poly-Houses)**

INDEX

Sr.No.	Item
1	Introduction
2	Rationale of the Project and Objectives
3	Project Components
4	Project Areas, Beneficiaries and how to apply
5	Role and Responsibility of Project Implementing Agency
6	Role and Responsibility of District Nodal Officer
7	General, Monitoring and Evaluation, Facilitation to the farmers, Expected Outcome

Annexure

I	Application Form for the assistance under Pt. Deen Dayal Kisan Bagwan Samridhi Yojna (Part-I)
II	Format to be filled in by the PIA for submission to DNO for obtaining sanction of the project proposal in favour of the beneficiary.
II-a	Authorization for the c/o Poly-House/Installation of Micro-Irrigation Systems/Creation of Water Source
II-b	Undertaking to be given by the beneficiary in the shape of affidavit to be attested by the First Class Magistrate(After receiving the sanction from DNO)
III	List of Shortlisted Companies for Part-A, Part-B and Part A+B
IV	Specification of Poly House Structures and Model-wise approved per Sqm covered area and Unit Costs
	Specifications for Installation of Micro-Irrigation Systems under Protected Covered area, Approved rates per Sqm covered area and Unit Costs
	Specifications for providing cladding materials, Approved rates per Sqm
V	List of Empanelled Firms/Companies for the construction of poly-houses
	List of Empanelled Firms/Companies for the construction of poly-houses and Micro-Irrigation Systems only under protective Cover (Poly-Houses)
	List of Empanelled Firms/Companies for the installation of Micro-Irrigation systems only under protective cover(Poly-Houses)
VI	Agreement between farmer and Eligible firm/company(Service Providers) for c/o Poly-House and installation of Micro-Irrigation Systems

1. Introduction:

There is a great variation in agro-climatic conditions in the Pradesh. These ranges from sub-humid sub tropical to dry temperate. Due to these climatic variations, variety of crops are grown during different periods of the year. Majority of cash crops mainly vegetables grown in the Pradesh are exported and consumed by the neighbouring States of plains. There is lot of demand for off season vegetables grown in the Pradesh and also there is a great export potential.

Holdings in the Pradesh are small and the main input i.e. water is also scarce. During recent past, vegetable growers in the Pradesh have suffered heavy losses due to excessive incidence of biotic and abiotic components of the environment. In areas which experienced very heavy rainfall, hailstorm, high velocity winds, drought and changed pattern of weather factors like temperature these farmers had no choice but to leave cultivation of sensitive, inputs intensive although highly remunerative vegetable crops. Similarly extreme climatic conditions like long winter season, excessive heat, snow etc. in many parts of the Pradesh do not allow cultivation of vegetables. In spite of all these constraints, the state has made good progress in diversifying area from traditional foodgrains to high value vegetable crops which fetch high income to the farmers.

Vegetables in general and green leafy vegetables in particular provide essential minerals, vitamins and as such form vital component of human diet. Also there is more demand for safe and quality farm fresh products.

In view of physiography, soil types, variability in climate, latitudes and need of the farmers and consumers, a project on "Production of Cash Crops through adoption of Precision Farming Practices" was posed for NABARD loan funding under RIDF-XIV. The

same has been approved for Rs.15,491.62 lacs. The project period is four years starting from 2008-2009. Project components include construction of location specific poly houses of different models with irrigation facility through micro-irrigation systems, creation of water sources individually and collectively by a group of farmers etc. With the adoption of green house/ poly house technology, farmers can grow high value cash crops under unfavourable and adverse climatic conditions also and the productivity levels are higher. There is less incidence of pests and diseases and thus usage of inputs is low. These factors leads to reduction in cost of production and produce is of better quality. Thus this project is aimed at assured production of off season cash crops from limited area and better returns to the small and marginal farmers.

Operational guidelines have been prepared for the guidance of the farmers and project implementing agencies. For the success of the project, concerted efforts of all concerned are vital. Assistance available for the installation of poly house structures with assured irrigation facility and for the creation of water sources is to the extent of 80% and 50% respectively of the approved cost. It is, therefore, desirable that the benefits of the project must flow and reach to the needy and deserving sections of the farming community. With successful implementation of this project, there would be quantum increase in production, productivity and quality of cash crops grown under protected conditions. Income levels would increase and thus socio-economic conditions of small holders would improve. Project would provide gainful employment to local youths and artisans. To achieve the cherished goals and expected outcome of the project, it is imperative that farmers are educated properly about the green house technology and are provided need based facilitation with regard to construction, utilization and maintenance of poly houses. There should be complete coordination amongst implementers of the project, beneficiaries, facilitator, scientists & extension workers.

2. Rationale of the Project and Objectives:

With the advancement of science and technology it is possible to get assured income by growing cash crops under protected condition. But, by and large small and marginal farmers are resource poor and are socio-economically weak. With a view to increase socio-economic conditions of 85% small and marginal farmers and provide gainful employment to rural youths and local artisans and other workers etc., project on production of cash crops through adoption of precision farming practices (poly house and micro irrigation alongwith water source augmentation structures) shall be implemented. The project shall be implemented in all the Districts keeping in view the potential and target set for each District. Project components include need based infrastructure and is expected to fulfill following objectives;

- Higher productivity and better quality of produce.
- Protected cultivation of cash crops will provide safeguard against adverse weather.
- To get higher productivity on sustainable basis through adoption of precision farming practices like precision planting/ seeding, fertigation, micro-irrigation, weed management, pest and diseases management etc.
- Efficient inputs use and reduced environmental damages.
- Conservation of scarce resource i.e. water.
- Easy to adopt organic farming practices which are eco-friendly and availability of safe food products with full traceability.
- Farmers can advance/ delay and segregate production of cash crops as per market demand.
- Safeguard against impact of biotic and abiotic stresses.

3. Project Components:

S.No.	Component	No's	Covered Area
1	Poly Houses Framed Structure (Rs.10111.75 lacs)	16500 No's	14,70,200 mt ²
2	Micro Irrigation (Sprinkler/ Drip System in poly houses as per feasibility) (Rs.2126.53 lacs)	12,320 No's	14,22,000 mt ²
3	Farm Tanks (1423 lacs) with poly houses as per feasibility.	1700 No's	4,95,00,000 mt ³
4	Shallow Well (100 No's), Shallow Tubewell (100 No's), Deeptube well (10 No's), Small Lift (100 No's), Medium Lifts (100 No's), Pumping Machinery 1HP (540 No's) with poly houses as per feasibility.	950 No's	-
5	Total Cost of Civil Works	14546.13 lacs	
6	Farmers Sensitization, contingency etc.	945.49 lacs	
	Total Project Cost	15491.62 lacs	

4. Project Areas, Beneficiaries and how to apply:

Project shall be implemented for the benefit of farming community in all the Districts of the Pradesh. District-wise targets have been fixed with regard to different project components. However within district, cluster approach shall be adopted as far as possible and preferential areas would be those which are having production constraints like heavy rainfall, hailing, frost, high velocity winds and extreme climatic conditions like long and severe winters etc.

BENEFICIARIES:

1. Farming families directly dependent on agriculture, preference to SF/ MF.
2. Unemployed educated youths having farmland shall also get priority.
3. Other farmers who are innovative and are following practices like organic farming, INM, IPM etc.
4. Farmers of area having production constraints due to hailstorm, water stress, very high rainfall, frost, severe winters etc.

All the components of project are linked to poly house framed structures and therefore assistance for the construction and execution of project components like micro-irrigation, water source development etc shall be available on the basis of technical feasibility report only to those farmers who avail assistance for polyhouse construction. Under this project, poly houses already constructed shall not be eligible to avail assistance under this project for micro irrigation system or water source. Farming family, who have already constructed poly houses upto 1000 Sq.m. shall not be eligible for assistance in this project.

How to Apply:

To avail project assistance, farmers shall apply to the District Nodal Officer i.e. Deputy Director of Agriculture who is the project sanctioning authority in the district through project implementing agency (PIA) in the development block i.e. Subject Matter Specialist on prescribed application form (**Annexure-I**) duly supported with revenue record i.e. Jamabandi of land where he wants to construct poly house structure/water source. The PIA shall give his report in **Annexure-II**. Farmer shall have to give following undertakings in the shape of an affidavit and will undertake the following in addition to the conditions specified in the prescribed affidavit form as per **Annexure-II (b)**.

- 1 that he will utilize and maintain the infrastructure created through project assistance for a period of minimum 5 years.
2. that he shall use the polyhouse mainly for vegetable cultivation.
3. that he has not availed any financial assistance from any other department/ source for the same infrastructure to be created under this project. However, he shall be eligible to get assistance upto 1,000 sq. mtrs. Covered area if the

earlier assistance availed for poly house construction is less than 1,000 sq. mtrs.

That in the event of departure from the above undertakings, he will be liable to refund the whole project assistance to the Department of Agriculture.

The affidavit would be on the judicial paper and should be attested by the 1st class Magistrate.

To undertake construction of poly house framed structures and other related infrastructure, the choice lies with the farmer i.e. either he can do it himself or through firm/company approved by the Department (**Annexure-V**), but, in all the cases the construction material to be used for the construction of poly houses and other related infrastructure i.e. irrigation system, water storage tank, lift etc. should be as per approved specifications enclosed at **Annexure-IV** given separately. For the guidance of the farmers, models appropriate for different areas have been approved. Also specification of construction material i.e. G.I. pipes, poly film and micro irrigation systems have been provided/approved. Farmers will not be eligible for assistance if the structures are not constructed as per approved designs and specifications. Project assistance shall be released to the beneficiary after the completion of project and the same shall be released after receipt of the verification report from the project implementation agency at block level. Therefore, it would be appropriate if farmers avail credit from any bank for a short period in case he/she does not have financial resource for putting in place infrastructure. The assistance would be released to the beneficiary in case he create infrastructure at his own or through the concerned bank from where he has availed credit so as to adjust the loan component by the bank. The assistance would be released in the shape of bank draft/check in both the cases. The Department or the approved firm as the case may be shall assist the farmers in the preparation of projects to avail credit facility from the

banks. In case farmer is willing to get the infrastructure Constructed from eligible empanelled companies he will have to sign an agreement with company as per **Annexure-VI**.

5. Role and Responsibility of Project Implementing Agency:

Subject Matter Specialist working in the Development Block will be the PIA. He will be assisted by a core team comprising of ADO, J.E., AEO (Graduate/ Post Graduate). He and his core team shall be responsible for the following:

1. After receipt of the application on prescribed form from the beneficiary, the same shall be entered in a register and a Sr. No. and date of receipt shall be assigned to that application.
2. He and his team will visit the site to verify the feasibility within 10 days from the receipt of application and will finalize the site and model of poly house on merit based parameters like aspect, direction and orientation etc. In case some site development is required then the farmers will be guided accordingly.
3. Will recommend/ reject the application after inspection of site. In case the site is found suitable the PIA will record details as per annexure-II column and will forward the same to the project sanctioning authority for administrative approval alongwith estimate of poly houses structure micro-irrigation and water sources etc. as the case may be within 5 days after inspection. Will exercise 100% test check during different phases of the execution of the project components.
4. Identification of rural artisan/ masons for training in green house construction in University/Institutions.
5. In case, the polyhouse and related infrastructure is to be constructed by the farmer himself by following the specification given by the Department, in that case, facilitation for preparing estimate shall be provided by the Department through its soil conservation/ engineering staff.

6. If the farmer wants to avail credit, necessary facilitation shall be provided by the PIA.
7. PIA will ensure that farmer willing to avail assistance under the project must get training in the selected institution before or during constructions period.
8. He and his team will be responsible for quality of construction, use of specified construction material and for timely construction of structure to ensure timely utility by the beneficiary.
9. Shall be responsible for preparation and submission of claims of project assistance alongwith photograph of poly house with farmers, banker, as the case may be to the project sanctioning authority i.e. DNO. The project assistance be recommended on approved cost only or on actual cost, which ever is less.
10. Will guide and educate farmers about proper utilization of poly houses i.e. selection of crop, production and protection, fertigation, grading, packing etc.
11. Will submit project completion reports on the prescribed format to the District Nodal Officer timely after inspection and joint inspection in case of bank loan.
12. Submission of progress reports and reimbursement claims to the District Nodal Officer every month on prescribed format.
13. Facilitation for signing of the agreement as per **Annexure-VI** between the farmer and the service provider (firm/company) for construction of green houses.
14. Shall issue work order to the beneficiary to start the work after administrative approval is received from DNO for the projects to be executed by the Department i.e. 6 sq. m. poly tunnels and to be constructed by the farmers by using local materials.

6. Role and Responsibility of District Nodal Officer:

For smooth and effective implementation of project, Deputy Directors of 10 Districts and District Agriculture Officer of Lahaul & Spiti and Kinnaur and APO, Kaza will be Nodal Officers in the Districts. DDA's

will be assisted by a core team comprising of District Agriculture Officer, Sub Divisional Soil Conservation Officer and ADO Headquarter in 10 Districts. In Tribal areas the team would be DAO/ APO, ADO, J.E.

1. The core team will delineate areas in the district having problem due to frost, hail, high rainfall and long and severe winters so as to give priority to the farmers of these areas for availing assistance and to start growing cash crops in poly houses.
2. Organise awareness campaign at focal points and will educate farmers about the project details. During the awareness campaigns, the willing farmers would be provided the prescribed application forms and necessary guidance.
3. District level core team and block level core teams shall also get training in University/ KVK as per calendar and module of training course to be finalized by the SAU. Besides, training shall also be arranged in University for rural artisans/ masons
- 4.(a)D.N.O. shall issue administrative approval after scrutiny of the cases within 10 days with a copy to the concerned bank, in case of bank loan.
(b) The DNO shall issue authorization letter in favour of beneficiary for the construction of poly houses/installation of micro irrigation systems/ creation of water source as per recommendations of PIA on the prescribed authorization letter given at **Annexure -II (a)** in case of beneficiary who wish to get the infrastructure constructed from empanelled service provider. In other cases i.e. works to be executed departmentally (6 sq. m. poly tunnel) and works to be executed by the beneficiary by using local material. Approval and sanction shall be accorded in favour of PIA.
4. DNO shall sanction the projects and project assistance as per the final claim and recommendation received from the PIA within 20 days from receipt of such request. Completion period of each sub-project should not be more than 2 months from the date of issue of administrative approval as far as possible.

5. The District core team will exercise at least 25% test check to ensure good quality of construction and that the specified construction material is being used.
6. Project assistance shall be released by the D.N.O. through PIA in shape of cheque/ bank draft for non loanee farmers whereas in case of loanee farmers, the project assistance shall be released through the concerned bank under intimation to PIA. However, the bank loan cases, the concerned bank shall send a copy of loan sanctioned letter to District Nodal Officer i.e. Deputy Director of Agriculture as well as the PIA i.e. Block SMS.
7. After the completion of sub projects D.N.O. will submit the PCR's to the Directorate within 15 days for further submission to the NABARD.
8. In order to get reimbursement claims, claims are required to be prepared model wise and size-wise.

7. General:

Pragmatic and participatory approach with complete transparency would determine the success of the project. Facilitation with regard to technical know how on all aspects of poly house technology would be provided to the farmers so that they can utilize project assistance in efficient manner for protected cultivation of high value cash crops.

7(a) Project Assistance:

Rates per sq. meter and unit cost has been approved. for different models of poly houses. Similarly unit cost of micro irrigation systems to be provided in the covered area has also been worked out. 80% project assistance is available to the beneficiaries for the construction of poly houses and installation of micro irrigation in covered area of the project(cost per sq. meter of different models of poly houses

and micro irrigation systems is at **Annexure-IV**. The remaining cost shall be borne by the farmers through his own sources or bank credit. The project assistance shall be released after completion of the project only. So the farmer can also avail credit for initial investment which shall be adjusted partially by the bank after receipt of project assistance from the Department. Also, project assistance to the extent of 50% of the approved cost or actual cost whichever is less is available for the creation and augmentation of water source. Component-wise maximum project assistance which an individual farmer can avail is given below:

For Poly houses:

- Project assistance upto 60 sq. m. covered area in case of poly tunnel of 6sq.m. (Model IA –A₁ to A₃) for nursery raising.
- One farmer can avail maximum assistance upto 400 sq.m. covered area in case he prefers poly house of 40 sq.m. (Model B to B 4)
- For model (3C – C₁ to C₈), wherein covered area is 40 sq. m. and 100 sq.m., one farmer can avail assistance for covered area upto 900 sq. mt (10x40 Sq.m + 5 x100 sq.m)
- For models (C₉ to C₁₂), (D-D₁ to D₄),(D-AL-DAL₁ to DAL₄), the covered area is 250 sq.m. One farmer can avail assistance for maximum covered area of 1000 sq.m. (4x250 sq.m)
- For snow bound areas model (Z-Z₁ & Z₂) are recommended. The maximum covered area is 40 sq.m. One farmer can avail assistance for 400 sq.m. covered area (10x40 sq.m)
- Farmers are at liberty to choose any combination of models provided in the project but the assistance would be available for maximum 1000 Sq. Mt. covered area. Also assistance for structures of covered area not mentioned above, can be availed as size of structure would depend upon location/ site and such flexibility has been provided in the project.

For Micro Irrigation:

80% assistance of approved unit cost and total covered area for sprinklers and drip with fogger systems of irrigation for different models is given at Annexure-IV.

For Water Storage and Augmentation of Water Source:

Farmers can avail assistance for one storage structure as per suitability and requirement. However, it is expected that such systems would be already in place with majority of farmers therefore, the number has been kept on lower side. Assistance would be available to the extent of 50% as per the maximum ceiling given below but it can be less based on actual site estimate:

- 50% assistance with maximum limit of Rs.22,000/- for poly lined tanks having 50 m capacity³.
- 50% assistance with maximum limit of Rs.21,000/- for stone masonry tank of 9 cum capacity.
- 50% assistance with maximum limit of Rs.42,500/- for RCC tanks of 20 cum. Capacity.
- 50% assistance with maximum limit of Rs.70,000/- for RCC tanks of 50 cum capacity.
- 50% assistance for shallow wells of appropriate depth and diameter (minimum depth 8 mtrs and diameter 2 mtrs.) with maximum limit of Rs.55,000/-.
- 50% assistance for shallow bore well and deep bore wells (with minimum depth 35 mtrs. and 70 mtrs. respectively with minimum dia 100 mm and 150 mm. Maximum limit of assistance would be Rs.1.0 lac and 2.5 lac. respectively.
- 50% assistance is available for lifting water with electric motor of 3 HP and 7.5 HP i.e. low and medium lift with maximum limit of assistance upto Rs.50,000 and Rs.1,50,000 respectively.
- 50% assistance is available for pumping machinery of 1.0 HP with maximum limit of Rs.3133/-

It is imperative that water being community resource, therefore, when it is exploited by constructing shallow and bore wells or lifted with pumping machinery, then preferably it should be utilized by a group of farmers, however, there is no restriction for individual farmers also.

8. Monitoring and Evaluation:

Concurrent and post project monitoring and evaluation of project is very important. This would help in bringing about need based modifications in the operational modalities of the project and would provide guidance with regard to facilitation required for the success of the project both to the beneficiaries and implementing department. It would be done by the;

- State level committee constituted for the smooth implementation of the project.
- By the funding agency i.e. NABARD.
- State level project implementation unit, D.N.O. and PIA.
- By an independent agency having sufficient experience and knowledge of the subject, if required.

9. Facilitation to the Farmers:

- Poly house models suitable for different agro-climate conditions have been prepared and would be provided to them.
- Complete designs of different models with specifications have been prepared and shall be made available to them to decide appropriate models they would like to construct.
- Specifications of construction material for the longevity and sustainability of structures have been approved and accordingly cost of construction has been worked out.
- For the installation of micro-irrigation systems, specifications of different components have been prepared and shall be provided.
- To determine amount of assistance for different components of the project, estimates of different components have been approved and firms/companies eligible to act as service providers have been empanelled as per list attached at **Annexure-V**.
- For sensitization, capacity building of extension officers/ farmers, about green house technology, State Agriculture University, Krishi Vigyan Kendra, other National Institutes etc. would be involved.
- Site specific Cost estimates of all the components of the project shall be prepared by the experts of the department, if the project is to be executed by the farmers himself without the help of service providers empanelled for the purpose.

- For obtaining bank loan, facilitation shall be provided by the Department for preparation of bank loan cases.
- For the construction of green houses with local material, local artisans will be imparted need based training in the Agriculture University through the D.N.O.
- Research and development support shall be provided by the Universities during the project implementation and post project period.
- Farmers shall be provided prescribed form to enter into agreement with empanelled firm/company for the construction of poly houses and micro irrigation system.

10. Expected Outcome:

- 4 to 10 times higher productivity of cash crops especially vegetables.
- Gainful employment to families/educated youths.
- Capacity building and employment to local artisans.
- Higher income and change in socio-economic status of small and marginal farmers.
- Protection against unfavorable weather and climatic factors.
- Saving of monetary inputs through adoption of precision farming techniques.
- Protection of environment due to lesser use of hazardous chemicals.

Note:

(i) These guidelines are subject to modification as per felt needs.

(ii) The operational guidelines for Part-II of the project i.e. "Diversification of Agriculture through Micro Irrigation" are being prepared and shall be got approved from the State Level Committee notified vide Notification No.Agr.F(11)9/2006-Loose dated 29.1.2009

Annexure-II

Format to be filled in by the PIA for Submission of District Nodal Officer for Obtaining Sanction of the Project Proposal in favour of the Beneficiary

1	Date of receipt of Application	
2	Date of Spot Inspection	
3	Category of farmers (1,2,3,4 as per guidelines)	
4	Feasibility Report	
A	Poly Houses:	
	(a) Khasra No. and Size of Field where farmers intend to construct Poly House	
	(b) Size of Poly House	
	(c) Model of Poly House	
	(d) Executing Agency	
	- Self	
	- Department of Agriculture	
	- Firm/ Company with Name and Contact No.	
	(e) Estimated Cost (as per A above)	
(f) Amount of Assistance		
B	Micro Irrigation System	
	(a) Sprinkler (b) Drip+Fogger Name and Contact No. of Firm	
	(i) Executing Agency	
	(ii) Area to be Covered (Sq. Mt.)	
	(iii) Estimated cost of covered area, with system to be installed as per B (a&b)	
5(A)	Feasibility and requirement of water potential as per specifications given in project document/ operational guidelines	
	(i) Water storage structure (specify capacity in cu. Mt. or Ltrs/ sec.	
	- Poly Lined	
	- Stone Massonary	
	- R.C.C.	
	(ii) Shallow Well	
	(iii) Bore Well	
	(iv) Lifts (Small or Medium)	

B	Estimate of the Water Source to be Created as per 5A	
	(i) Amount of Assistance	
C	Requirement of Pumping unit in case of shallow and bore wells (specify purpose & type of pumping unit)	
	(i) Cost	
	(ii) Amount of Assistance	
6	Recommendation of PIA to DNO for the Sanction of Project Assistance	
	(i) Total estimated cost of Poly house structure/ micro irrigation	
	(a) Eligible Cost	
	(i) Project Share	
	(ii) Beneficiaries Share	
7(A)	Mode of Payment of Project Assistance	
	- Directly to the Beneficiary (as per guidelines)	
	- Through bank (to be specified) in case Beneficiary willing to avail credit facility (Full Name and Address of Bank)	
(B)	Beneficiary would contribute his share as per procedure given in the guidelines	

1. Certified that above details are based on spot inspection and information furnished by the beneficiary.

2. Certified that the undertaking from beneficiary shall be obtained on affidavit as per guidelines Annexure-II(b) after the issue of administrative approval and before the issue of work order/ after the issuance of authorization based on above from Sr. No.1 to 7.

Submitted to the DDA-cum-District Nodal Officer for favour of perusal and further necessary action alongwith necessary estimates and documents.

SMS-cum-PIA,
Dev. Block _____

Annexure-II (a)

To

Shri _____
S/O Shri _____
Resident of Village _____
P.O. _____ Tehsil _____
Distt. _____ H.P.

Subject: **Authorisation for the construction of poly house/installation of micro irrigation system/creation of water source.**

Sir,

Please refer to your application dated _____ and recommendations of PIA received vide letter No. _____ dated _____.

You are hereby authorized to undertake the followings as per specifications given in the guidelines issued by the Govt. vide letter No. _____ dated _____.

1. Construction of Poly House model (_____) having covered area (_____ Sq.m.) with an estimated cost of Rs. _____ (Rupees _____) only through _____ Company/Service Provider M/S _____ empanelled for this purpose vide letter No. _____ dated _____.
2. Installation of Micro Irrigation System inside the covered area (_____ Sq.m) with an estimated cost of Rs. _____ (Rupees _____) only through _____ company/service provider M/S _____ empanelled for this purpose vide letter No. _____ dated _____.
3. For the construction of Tank/Well/Bore well/lift (capacity)/pumping unit having capacity _____ cu.m./LPS with an estimated cost of _____

Rs. _____ (Rupees _____)

only as per estimated cost prepared and submitted by PIA after spot inspection.

The above authorization is subject to the following terms and conditions:

1. Entitlement for assistance @ 80% for components 1 &2 and 50% for component 3 would be based on the evaluation and measurement to be done by the PIA or his authorized representatives.
2. For any deviation from the given/approved specifications with regard to constructions material and design etc. you will be liable for same and the same may lead to forfeiture of assistance available under the scheme.
3. 10% variation in the covered area is allowed depending upon the site.
4. Before undertaking construction work, you have to submit an affidavit on the format prescribed (copy enclosed).
5. Before assigning work to the company/service provider, you will sign an agreement with the company/service provider and will comply with the agreed terms and conditions especially with regard to remittance of payments on the agreed form annexed in the guidelines (copy enclosed).

District Nodal Officer-cum-
Deputy Director of Agriculture
_____ Distt. _____

Copy forwarded to:

1. The Project Implementing Agency/SMS, Development Block _____
Distt. _____.

2. The Manager, _____ Branch _____
P.O. _____ Tehsil _____ Distt. _____ H.P.

District Nodal Officer-cum-
Deputy Director of Agriculture
_____ Distt. _____

Annexure-II (b)

Undertaking to be Given by the Beneficiary in the Shape of Affidavit to be Attested by the First Class Magistrate (After receiving the Sanction from District Nodal Officer)

I/ We _____ S/O
_____ R/O _____
_____ do

hereby undertake the following;

1. that I have received approval for the construction of Poly house (_____ Sq. Mt.), Micro Irrigation System (_____ Sq. Mt.) for the creation of water source i.e. tank/ bore well/ well/ lift/ pumping unit and I am eligible to receive Project Assistance amounting to Rs. _____ after the creation of infrastructure mentioned above.
2. that I will utilize and maintain the infrastructure created through Project Assistance for a period of minimum five years.
3. that I will use the poly house for raising vegetable crop mainly.
4. that I have not availed any assistance for the creation of same infrastructure as approved as per Sr. No.1 above.
5. That the contents of my application submitted to the Agriculture Department for sanction of Project Assistance under Pandit Deen Dayal Kisan Bagwan Samridhi Yojna are correct and no part of it is wrong and nothing has been concealed therefrom.
6. that I will part with my share (20%) for the installation of infrastructure (Poly House or Micro Irrigation or both) approved vide letter No. _____ dated _____ by the District Nodal Officer (Deputy Director of Agriculture/ District Agriculture Officer and Assistance Project Officer) as per terms and conditions laid down for the operationalization of the scheme.

I further undertake that in the event of departure from the above i.e. Sr. No.1 to 6, I shall be liable to refund the whole or part of the Project Assistance as the case be to the Project Sanctioning Authority i.e. District Nodal Officer, District _____, Himachal Pradesh.

Deponent

Verification

I the above named deponent do hereby solemnly admit and verify that the contents of the above affidavit are true and correct and no part of it is false and nothing material has been concealed therefrom.

Verified at _____ on this _____ day
of _____ 2009.

Deponent

Note: To be attested by First Class Magistrate

Annexure –III

A) List of Short listed Companies for the planning, designing and construction of Poly houses (Part –A)

- 1) M/S Complete Solutions Pvt. Industrial Area, Plot No. 13-14, Kurali, Punjab.
- 2) M/S Ira Industries, VPO : Basal , Teh & Distt Solan H.P.
- 3) M/S Phaur Agrotech, WZ-75, Todapur, Near Inderpuri, New Delhi-110012.
- 4) M/S Flori Tech India 17-B/27, D.B.G.R. Dev Nagar, Krol Bagh, New Delhi.
- 5) M/S Swati Industries, Near Saproon, Post Office, Saproon-173211, Solan (H.P.)
- 6) M/S Pamico Industries, Sirat Road, Mohtali, Distt. Kangra(H.P.) - 176404.
- 7) M/S Himalayan Flora, Bilayat Cottage, Tuti Kandi, Shimla-4 (H.P.)
- 8) M/S Thakur Brothers, Green house Consultants, 6-a Diara Sector, Near Sri Luxmi Narayan Mandir, Bilaspur (H.P).
- 9) M/S Churah Valley, Fruits Veg. Flower Growers, Bhanjraru,, Distt. Chamba,(H.P.).
- 10) The Greenhouse Construction CO. Shrihari Enterprises, Varale Rd. , Talegaon Dabhade (Station) Tal. Maval, Distt. Pune -410507, Maharashtra.
- 11) M/S Surya Structural Bye- Pass Road, Kather, Solan -173213.(H.P.)
- 12) M/S Rajdeep Agri Products Pvt Ltd -3279/1, Ranjeetnagar, New, Delhi- 8.

B) List of Short listed Companies for providing and installation of Micro- Irrigation systems (Sprinkler, Drip, Fogger) (Part –B)

- 1) M/S Himalaya Irrigation Systems, Near Hero Honda , Show Room, Amb Road, Vill. Lalsinghi, PO: Rainsari, Una, H.P.
- 2) M/S Harvell Irrigations Pvt. Ltd. SCO-110-111, Sector -8C, Madhya Marg, Chandigarh 160018.
- 3) M/S Netafim Irrigation India Pvt. Ltd, 268-270 G.I.D.C. Manjusar, Savli, Distt. Varodra -391775, Gujrat.

C) List of Short listed Companies Both for the planning, designing and construction of Poly houses of different models with all type of material and fixtures as well as for providing and installation of Micro- Irrigation systems (Sprinkler, Drip, Fogger) (Part (A+B))

- 1) M/S Green Tech Agri Sector Pvt. Ltd near Escort Tractor Agency, Ner Chowk, Mandi, Distt. Mandi, H.P.
- 2) M/S Shivalik Agro- Engineers, Near DAV School, Bye-Pass Road, Solan H.P.
- 3) M/S Plastro Plasson Industries,(India) Ltd. Plot No.399, Urse Taluka, Maval, Distt. Pune -410506. Maharashtra.
- 4) M/S Harvell Agua India Pvt. Ltd. 301-304, Meghdoot-94, Nehru Palace, New Delhi-110019.
- 5) M/S Jain Irrigation System Ltd. Jain Plastic Park, PO Box-72, NH-6, Jalgaon - 425001, Maharashtra.
- 6) M/S Techno Green, Plot No. 9-A, Ind. Area , Bilaspur, Distt. Bilaspur, H.P.
- 7) M/S Sri Roz Green Houses, Plot No. 12, Industrial Area Bilaspur (H.P.) 174001.
- 8) M/S Bhoomi Agro- Tech, Opposite Himachal Pradesh State Co-operative Bank, NH-88, Kandrour, Distt. Bilaspur, H.P.

Annexure- IV**Specification of Poly- house structures and Model-Wise Approved per Sq m Covered Area and unit costs**

Sr. No.	Basic Model	Sub Model	Description	Unit Size (Sq m)	Approved Rate Per Sq m Covered Area Rs	Approved Cost per unit Rs
1.	1A (6 Sqm)	1A ₁	<p>C/o Very Low Cost tunnel Poly House with mild steel work welded / bolted frame having red oxide priming coat followed by brush painting (two coats) on all M.S. parts. (flat iron 20x5 mm & 25 cm sharp edged peg insertion into ground) frame structure as per approved standard Drawing & design Size:</p> <p>Specification Type Length 4.00 mtr (Spans at 1.00m each) Breadth 1.50 mtr. Center height 1.50 mtr. (Semi circular). Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc. 1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly film. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same. 2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications . Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p>	6.00	500/-	3000.00
		1A ₂	<p>C/o Very Low Cost tunnel Poly House with mild steel work welded / bolted frame having red oxide priming coat followed by brush painting (two coats) on all M.S. parts. (flat iron 20x5 mm, Angle Iron 40 x 40 x 5 mm in bottom & Square Bar 12 x 12 mm sharp edged peg 25 Cm insertion in ground, frame structure as per approved standard Drawing & design Size:</p> <p>Specification Type Length 4.00 mtr. (Spans at 1.00m each), Breadth 1.50 mtr. Center height 1.50 mtr. (Semi circular). Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc. 1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive</p>			

		<p>life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required .</p>	6Sqm	500/-	3000.00
	1A ₃	<p>C/o Very Low Cost tunnel Poly House with G.I. Pipe (A-Class) frame 15mm diameter confirming to IS. Code 1239 and zinc coating as per IS Code 4736. Frame structure as per approved standard Drawing & design</p> <p>Specification Type Length 4.00 mtr. (Spans at 1.00m each), Breadth 1.50 mtr. Center height 1.50 mtr. (Semi circular).</p> <p>Cladding Material / U.V. Poly Films:</p> <p>Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc.</p> <p>1) Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p>	6Sqm	500/-	3000.00
2.	2B 40Sqm	<p>C/o Very Low Cost low technology all wood poly house (without shade net) tunnel Cross Section Semi – Circular having radius of 2.00m i.e. providing and fixing of bamboos 0.60m under ground insertion into 50mm dia HDPE Pipe with bituminous treatment and bamboo mesh of 1.00m x 1.00m and batten door 1.00m x2.00m and suitable electrification provision. Frame structure as per approved standard Drawing & design Size:</p> <p>Specification Type Length : 10.00 mtr (Spans at 1.00m c/c each) Breadth : 4.00 mtr. Center height : 2.00 mtr. (Semi circular).</p> <p>Cladding Material / U.V. Poly Films:</p> <p>Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc.</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly film. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications . Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p>			

		B₁ & B₂	a) Without Shade net with UV. Film having specifications mentioned under Sr. No.2(Item no. 1&2)	40 Sqm	250/-	10,000.00
		B₃ & B₄	b) With U.V <u>Shade</u> net 50% exterior shading with UV. Film having specifications mentioned under Sr. No.2(Item no. 1&2)	40 Sqm	300/-	12,000.00
3.	3C 40Sqm		<p>Low Cost Modified Side ventilation Poly house (As per standard Design & Drawing Approved with G.I. Pipe (A Class) Hot galvanized ISI 1239 marked of different dia meters and Galvanization as per IS-Code 4736 size varying from 15 mm dia and 2 mm thick (for horizontal & Arc), 25 mm dia and 2.65 mm thick (for Column) including earth work in foundation &C.C. 1:3:6 for encasing column pipe ,Processing, fabrication and erection with all fitting and accessories</p> <p>Specification Type: Length : 10.00 mtr. (Spans at 1.00m each), Breadth : 4.00 mtr. Side /Center height : 2.00/4.00 mtr. (Semi circular type).</p> <p>Sub Structure: Stanchions/ props : 25mm G.I. Pipe Top Arc with tie beam: 15mm G.I. Pipe King Posts, Struts & Ties:15mm G.I. Pipe</p> <p>Door and End Frame: One door size 1mx2m made from 1.25"x1.25"M.S. square pipe (duly painted) with poly sheet . End frames fabricated from 1.25" x1.25" M.S. Square having red oxide priming coat followed by brush painting (two coats)on all M.S. parts.</p> <p>Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc.</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p> <p>3)U.V. stabilized film should block U.V. radiations up to 400 nanometer. Poly film should have good thermic effect more than 60%. It should have properties like anti-drip, anti- fog, anti-dust, light diffusion capacity above 50% etc.</p> <p>Side Ventilation :Side ventilation roll up system provided on two sides from top of side prop to 1.00m downward and is designed to open from bottom to top with manually operated mechanism. From ground level to 1.00m height is to be provided a strip of U.V. poly sheet in order to prevent drafts in and around the ground area. Sheet shall be buried to minimum depth of 30 cm. in the ground on the lower side to prevent insect - Pest migration and entry of water from outside.</p> <p>Insect Nets: U.V proof insect net of 40mesh is to be provided in the side walls and top vents , wherever applicable as per opening space/vents and tightly fitted to provide natural ventilation and checking of insects entry into poly house.</p>			

			<p>Shade Nets: Fixed type exterior shading is recommended which can be removed as and when required and Shade nets which provide 50% shading effect and nets should be U.V. stabilized.</p> <p>Optional:- i) Top Ventilation & ii) All Round Ventilation. iii) Arrangement for movable exterior/interior rolling type shading as per choice of farmers. For these options ,extra cost if any, is to be borne by the farmers</p>			
		C₁ & C₂	a) Without Shade net with UV. Film having specifications mentioned under Sr. No.3(Item no. 1&2)	40 Sqm	1030/-	41,200.00
		-do-	b) Without Shade net with UV. Film having specifications mentioned under Sr. No.3 (Item no 1,2& 3).	40 Sqm	1050/-	42,000.00
		C₃ & C₄	c) With U.V. Shade net 50% exterior shading with UV film having specifications mentioned under Sr. No.3(Item no. 1&2).	40 Sqm	1090/-	43,600.00
		-do-	d) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 3 (Item no 1,2& 3).	40 Sqm	1110/-	44,400.00
4.	C (100 Sqm)		<p>Low Cost Modified Side ventilation Poly house (As per standard Design & Drawing Approved) with G.I. Pipe (A Class) Hot galvanized ISI 1239 marked of different dia meters and Galvanization as per IS-Code 4736 size varying from 15 mm dia and 2 mm thick (for Roll up),20 mm dia and 2.35 thick (for Horizontal), 25 mm dia 2.65 mm thick (for Bracing & trusses), 32 mm dia 2.65 thick (for Column) including earth work in foundation & C.C. 1:3:6 for encasing column pipe including G.I. profile, Spring, Molding, Processing fabrication and erection with all fitting and accessories.</p> <p>Specification Type: Length: 15.00 mtr. (Spans at 2.50m each), Breadth: 7.00 mtr. Side /Center height : 2.50/4.00 mtr. (Semi circular type).</p> <p>Sub Structure: Stanchions/ props : 32mm G.I. Pipe Top Arc with tie beam: 25mm G.I. Pipe King Post, Struts& Ties : 20mm G.I. Pipe</p> <p>Door and End Frame: One door size 1mx2m made from 1.25"x1.25" M.S. square pipe duly painted with poly sheet . End frames fabricated from 1.25" x1.25" M.S. Square duly painted first with red oxide priming coat and then brush painting (two coats)on all M.S. parts.</p> <p>Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc.</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company are liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p> <p>3)U.V. stabilized film should block U.V. radiations up to 400 nanometer. Poly film should have good thermic effect more than 60%. It should have properties like anti-drip, anti- fog, anti-dust, light diffusion</p>			

		<p>capacity above 50% etc.</p> <p>Side Ventilation :</p> <p>Side ventilation roll up system provided on two sides from top of side prop to 1.50m downward and is designed to open from bottom to top using hand operated mechanism. From ground level to 1.00m height is to be provided with a strip of U.V. Sheet in order to prevent drafts in and around the ground area. Sheet shall be buried to minimum depth of 30 cm in the ground on the lower side to prevent insect - Pest migration and water from outside.</p> <p>Insect Nets: U.V proof insect net of 40mesh is to be provided in the side walls and top vents , wherever applicable as per opening space/vents and tightly fitted to provide natural ventilation and checking of insects entry into poly house.</p> <p>Shade Nets: Fixed type exterior shading is recommended which can be removed as and when required and Shade nets which provide 50% shading effect and nets should be U.V. stabilized.</p> <p>Optional:- i) Top Ventilation & ii) All Round Ventilation , iii) Increase in side and central height.</p> <p>iv) Arrangement for movable exterior/interior rolling type shading as per choice of farmers .For these extra cost if any is to be born by the farmers.</p>			
	C₅ & C₆	a) Without Shade net with UV. Film having specifications mentioned under Sr. No. 4(Item no 1&2).	100 Sqm	830/-	83,000.00
	-do-	b) Without Shade net with UV. Film having specifications mentioned under Sr. No. 4 (Item no 1,2& 3).	100 Sqm	840/-	84,000.00
	C₇ & C₈	c) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No.4 (Item no 1&2).	100 Sqm	880/-	88,000.00
	-do-	d) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 4 (Item no 1,2& 3.)	100 Sqm	885/-	88,500.00
5.	C (250 Sqm)	<p>Medium Cost Medium Technology Side ventilation Poly house (As per standard Design & Drawing Approved) <u>G.I. Pipe (A Class) Hot galvanized ISI 1239 marked of different dia meters and Galvanization as per IS-Code 4736</u> size varying from 15 mm dia 2 mm thick (for Roll up, Strut & Ties), 25 mm dia ,2.65 mm thick (for Horizontal, Ridge &Hoop), 40 mm dia 2.90 mm thick (for Column & King Post) including earth work in foundation & C.C. 1:3:6 for encasing column pipes including G.I. profile etc. Molding, Processing, fabrication and erection with all fittings and accessories</p> <p>Specification</p> <p>Type: Length : 25.00 mtr. (Spans at 2.50m each), Breadth : 10.00 mtr. Side /Center height : 2.50/4.00 mtr. (Semi circular type).</p> <p>Sub Structure: Stanchions/ props : 40mm G.I. Pipe Top Arc with tie beam: 25mm G.I.Pipe Struts & Ties : 15mm G.I.Pipe</p> <p>Door and End Frame: One door size 1mx2m made from 1.25"x1.25"M.S. square pipe (duly painted) with poly sheet . End frames fabricated from 1.25" x1.25" M.S. Square duly painted first red oxide priming coat</p>			

		<p>followed by brush painting (two coats) on all M.S. parts.</p> <p>Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required..</p> <p>3) U.V. stabilized film should block U.V. Radiations up to 400 nanometer. Poly film should have good thermic effect more than 60%. Films should have properties like anti-drip, anti- fog, anti-dust, light diffusion capacity above 50% etc.</p> <p>Side Ventilation :Side ventilation roll up system provided on two sides from top of side prop to 1.50 m downward and is designed to open from bottom to top using hand operated mechanism. From ground level to 1.00m height is to be provided with a strip of U.V. Sheet in order to prevent drafts in and around the ground area. Sheet shall be buried in the ground on the lower side up to minimum depth of 40 cm to check insect - Pest migration and entry of water from outside.</p> <p>Insect Nets: U.V proof insect net of 40 mesh is to be provided in the side walls and top vents , wherever applicable as per opening space/vents and tightly fitted to provide natural ventilation and checking of insects entry into poly house.</p> <p>Shade Nets: Fixed type exterior shading is recommended which can be removed as and when required and Shade nets which provide 50% shading effect and nets should be U.V. stabilized.</p> <p>Optional:- i) Top Ventilation & ii) All Round Ventilation. iii) Annex door. iv) Side /Central height 2.50/4.50m v) Side /Central height 3.00/5.00m. vi) Arrangement for movable exterior/interior rolling type shading as per choice of farmers and for these extra cost if any is to be born by the farmers.</p>			
	C₉& C₁₀	a)Without Shade net with UV. Film having specifications mentioned under Sr. No. 5(Item no 1&2).	250 Sqm	720/-	180,000.00
	C₉& C₁₀	b)Without Shade net with UV. Film having specifications mentioned under Sr. No. 5 (Item no 1,2& 3).	250 Sqm	725/-	181,250.00
	C₁₁& C₁₂	c)With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 5 (Item no 1&2).	250 Sqm	740/-	185,000.00
	C₁₁& C₁₂	d) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 5(Item no 1,2 & 3).	250 Sqm	750/-	187,500.00

6.	D (250 Sqm)	<p>Medium Cost Medium technology Side and Top ventilation Poly house (As per standard Design & Drawing Approved) with G.I. Pipe (A Class) Hot galvanized ISI 1239 marked of different dia meters and Galvanization as per IS-Code 4736 size varying from 15 mm dia 2 mm thick (for Roll up, Strut & Ties), 25 mm dia, 2.65 mm thick (for Horizontal, Ridge &Hoop), 40 mm dia, 2.90 mm thick (for Column & King Post) including earth work in foundation & C.C. 1:3:6 for encasing column pipe including G.I. Profile etc., Molding, Processing, fabrication and erection with all fittings and accessories</p> <p>Specification Type: Length : 25.00 m. (Spans at 2.50m each), Breadth : 10.00 m. Side /Center height : 2.50/4.00+1 m top ventilation . (Semi circular type). Sub Structure: Stanchions/ props : 40mm G.I. Pipe Top Arc with tie beam: 25mm G.I.Pipe Struts& Ties : 15mm G.I.Pipe</p> <p>Door and End Frame: One door size 1mx2m made from 1.25"x1.25" M.S. square pipe (duly painted) with poly sheet . End frames fabricated from 1.25" x1.25" M.S. Square duly painted first red oxide priming coat followed by brush painting (two coats) on all M.S. parts. Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc.</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required .</p> <p>3)U.V. stabilized film should block U.V. radiations up to 400 nanometer. Poly film should have good thermic effect more than 60%. Films should have proper light diffusion capacity above 50% etc.</p> <p>Side Ventilation : Side ventilation roll up system provided on two sides from top of side prop to 1.50 m downward and is designed to open from bottom to top using hand operated mechanism. From ground level to 1.00m height is to be provided with a strip of U.V. Sheet in order to prevent drafts in and around the ground area. Sheet shall be buried in the ground on the lower side up to minimum depth of 40 cm to check insect - Pest migration and entry of water from outside.</p> <p>Top Ventilation : Top ventilation rollup system is to be provided with opening of 1.00meter which is to be operated by hand operated mechanism and designed to be operated from bottom to top . Top open space /vent is to be covered with 40 mesh U.V. stabilized insect net. The vent hoop should be sufficiently extended so that rain water/ rain showers do not enter the poly house.</p> <p>Insect Nets: U.V proof insect net of 40 mesh is to be provided in the side walls and top vents , wherever</p>			
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		<p>applicable as per opening space/vents and tightly fitted to provide natural ventilation and checking of insects entry into poly house.</p> <p>Shade Nets: Removable fixed type exterior shading is recommended which can be removed as and when required and Shade nets which provide 50% shading effect and nets should be U.V. stabilized..</p> <p>Optional:- i) Top Ventilation up to 1.50meters & ii) All Round Ventilation . iii) Annex door. iv) Side /Central height 2.50/4.50m+1.00m top ventilation. v) Side /Central height 3.00/5.00m +1.00m top ventilation. vi) Arrangement for movable exterior/interior rolling type shading as per choice of farmers and for these extra cost, if any is to be born by the farmers.</p>				
		D₁ & D₂	a) Without Shade net with UV. Film having specifications mentioned under Sr. No. 6(Item no 1&2).	250 Sqm	730/-	182,500.00
		-do-	b) Without Shade net with UV. Film having specifications mentioned under Sr. No. 6 (Item no 1,2 & 3).	250 Sqm	740/-	185,000.00
		D₃ & D₄	c) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 6 (Item no 1&2).	250 Sqm	765/-	191,250.00
		D₃ & D₄	d) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 6 (Item no 1,2 & 3).	250 Sqm	770/-	192,500.00
7.	D-AL (250 Sqm)	<p>Medium Cost Medium technology Side and Top ventilation Poly house (As per standard Design & Drawing Approved) with <u>G.I. Pipe (A Class) Hot galvanized ISI 1239 marked of different dia meters and Galvanization as per IS-Code 4736 size</u> varying from 15 mm dia, 2 mm thick (for Roll up, Strut & Ties), 25 mm dia, 2.65 mm thick (for Horizontal, Ridge &Hoop), 40 mm dia ,2.90 mm thick (for Column & King Post) including earth work in foundation & C.C. 1:3:6 for encasing column pipe including Aluminium Profile etc., Molding, Processing fabrication and erection with all fittings and accessories</p> <p>Specification Type: Length : 25.00 m. (Spans at 2.50m each), Breadth : 10.00 m. Side /Center height : 2.50/4.00+1 m top ventilation . (Semi circular type).</p> <p>Sub Structure: Stanchions/ props : 40mm G.I. Pipe Top Arc with tie beam: 25mm G.I.Pipe Struts& Ties : 15mm G.I.Pipe</p> <p>Door and End Frame: One door size 1mx2m made from 1.25"x1.25" M.S. square pipe (duly painted) with poly sheet . End frames fabricated from 1.25" x1.25" M.S. Square duly painted first red oxide priming coat followed by brush painting (two coats)on all M.S. parts.</p> <p>Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized Poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. Aluminum Profile etc.</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the</p>				

		<p>firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p> <p>3)U.V. stabilized film should block U.V. radiations up to 400 nanometer. Poly film should have good thermic effect more than 60%. Films should have properties like anti-drip, anti- fog, anti-dust, light diffusion capacity above 50% etc.</p> <p>Side Ventilation : Side ventilation roll up system provided on two sides from top of side prop to 1.50 m downward and is designed to open from bottom to top using hand operated mechanism. From ground level to 1.00mheight is to be provided with a strip of U.V. Sheet in order to prevent drafts in and around the ground area. Sheet shall be buried in the ground on the lower side up to minimum depth of 40 cm to check insect - Pest migration and water from outside.</p> <p>Top Ventilation : Top ventilation rollup system is to be provided with opening of 1.00meter which is to be operated by hand operated mechanism and designed to be operated from bottom to top . Top open space /vent is to be covered with 40 mesh U.V. stabilized insect net. The vent hoop should be sufficiently extended so that rain water/ rain showers do not enter the poly house.</p> <p>Insect Nets: U.V proof insect net of 40 mesh is to be provided in the side walls and top vents , wherever applicable as per opening space/vents and tightly fitted to provide natural ventilation and checking of insects entry into poly house.</p> <p>Shade Nets: Fixed type exterior shading is recommended which can be removed as and when required and Shade nets which provide 50% shading effect and nets should be U.V. stabilized.</p> <p>Optional:- i) Top Ventilation up to 1.50meters & ii) All Round Ventilation . iii) Annex door. iv) Side /Central height 2.50/4.50m+1.00m top ventilation. v) Side /Central height 3.00/5.00m +1.00m top ventilation. vi) Arrangement for movable exterior/interior rolling type shading as per choice of farmers and for these extra cost, if any is to be born by the farmers.</p>			
	D-AL₁& DAL₂	a)Without Shade net with UV. Film having specifications mentioned under Sr. No.7 (Item no 1&2).	250 Sqm	735/-	183,750.00
	-do-	b) Without Shade net with UV. Film having specifications mentioned under Sr. No.7 (Item no 1,2 & 3).	250 Sqm	745/-	186,250.00
	D-AL3 & DAL₄	c) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 7(Item no 1&2).	250 Sqm	770/-	192,500.00
	-do-	d) With U.V. Shade net 50% exterior shading with UV. Film having specifications mentioned under Sr. No. 7 (Item no 1,2 & 3).	250 Sqm	775/-	193,750.00

8.	Z (40 Sqm)	<p>Low technology Special Model Poly house for Snow Bound Area Without Shade net with G.I. Pipe (A Class) Hot galvanized ISI 1239 marked of different dia meters and Galvanization as per IS-Code 4736 size varying from 25 mm dia 2.65 mm thick (for Horizontal), 40 mm dia, 2.90 mm thick (for Column) including earth work in foundation & C.C. 1:3:6 for encasing column pipe including G.I. Profile etc., Molding, Processing ,fabrication and erection with all fittings and accessories. The top surface is to be fixed with G.I. Wire mesh 150x150mm size, 4mm thick G.I. Wire conforming to IS 2721-2003, galvanizing heavy coated with zinc as per IS. 4826-1968 or IS 12753.</p> <p>Specification Type: Length : 10.00 m. (Spans at 2.00m each), Breadth : 4.00 m. Side height : 2.75m on higher side and 1.75m on shorter side</p> <p>Sub Structure: Stanchions/ props : 40mm G.I. Pipe Horizontal purlin etc. 25mm G.I.Pipe</p> <p>Door and End Frame: One door size 1mx2m made from 1.25"x1.25" M.S. square pipe (duly painted) with poly sheet . End frames fabricated from 1.25" x1.25" M.S. Square duly painted first red oxide priming coat followed by brush painting (two coats)on all M.S. parts.</p> <p>Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc.</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p> <p>3)U.V. stabilized film should block U.V. radiations up to 400 nanometer. Poly film should have good thermic effect more than 60%. Films should have properties like anti-drip, anti- fog, anti-dust, light diffusion capacity above 50% etc.</p> <p>Optional:- i) Side height 2.50/1.50m. ii) Lower side and Short side supported with brick masonry 0.50m height. iii)All sides with G.I. Wire mesh for protection from wild and domestic animals, as per choice of farmers and for optional items, extra cost if any is to be borne by the farmers.</p>			
	Z ₁	a) Without Shade net with UV. Film having specifications mentioned under Sr. No. 8 (Item no 1&2).	40 Sqm	990/-	39,600.00
	Z ₁	b) Without Shade net with UV. Film having specifications mentioned under Sr. No. 8 (Item no 1,2 & 3).	40 Sqm	1000/-	40,000.00

9.	Z (40 Sqm)	<p>Very low technology special model poly house with wooden structure with out shade net , Cross section trapezoidal section one side along with existing house wooden poles and frames for wooden structures, Providing and fixing PVC Pipe 100mm dia , P/F interlink chains of galvanized steel chain link fence fabric as per IS-2721-2003.</p> <p>Specification Type: Length : 10.00 m. (Spans at 2.50m each), Breadth : 4.00 m. Side height : 2.75m on higher side and 1.75m on shorter side .</p> <p>Cladding Material / U.V. Poly Films: Covering with suitable U.V. stabilized poly sheet, the sheet is to be attached to the structure for quick removal and fixing i.e. G.I. Profile etc.</p> <p>1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same.</p> <p>2)The minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.</p> <p>Optional:- i) Side height 2.50/1.50m. ii) Lower side and Short side supported with brick masonry 0.50m height. iii)All sides with G.I. Wire mesh for protection from wild and domestic animals, as per choice of farmers and for optional items, extra cost if any is to be borne by the farmers.</p>			
	Z₂	a) Without Shade net with UV. Film having specifications mentioned under Sr. No. 9 (Item no 1&2).	40 Sqm	950/-	38,000.00
	-do-	b) Without Shade net with UV. Film having specifications mentioned under Sr. No. 9 (Item no 1,2 & 3).	40 Sqm	950/-	38,000.00

**Specifications for Installation of Micro-Irrigation Systems under Protected Covered Area
Approved Rates per Sq m Covered Area and unit costs**

Sr. No .	MI System	Description	Unit Size (Sq m)	Approved Rate Per Sq m Covered Area Rs	Approved Cost per unit Rs
1.	A. Sprinkler System	SPECIFICATIONS FOR SPRINKLERS:- Indicative requirements of sprinkler components will include (HDPE pipe 32mm,40mm ,50mm,63mm of suitable pressure ratings), (Double effect 1" air release valve), (Lateral 16mm LLDPE),(Control valve (Ball) 32mm, 40mm, 50mm, 63mm), (1"Disc filter 130micron (3 -5 m ³ / hr.), (1,1/4" 130 micron 12 m ³ / hr 1,1/2" 130 micron 12m ³ / hr.), (Media sand filter with back flush assembly 10m ³ / hr.), (Micro sprinkler with up side down configuration with anti drain at spacing of 2x 2 meters with discharge of 60 lph at 25-30 meter head),			
	1	Sprinkler System for 40 Sq m covered area.	40	152.00	6,080.00
	2	Sprinkler System for 100 Sqm covered area.	100	80.00	8,000.00
	3	Sprinkler System for 250 Sqm covered area.	250	48.00	12,000.00
	4	Sprinkler System for 2 x 250 Sqm covered area.	500	45.00	22,500.00
	5	Sprinkler System for 500 Sqm covered area.	500	45.00	22,500.00

2.	B. Drip +Fogger System	SPECIFICATIONS FOR DRIP + FOGGERS :- Indicative requirement of drip + fogger system components will consist of (PVC pipe 10Kg/ cm ² ,32mm dia), (HDPE pipes 63mm,50mm,40mm,32mm dia) of suitable pressure ratings(As per further guidelines enclosed),(Air release valve), (Laterals 16mm LLDPE), (Drip lines Integral or inbuilt 16mm x 30cm x2lpsx 0.9mm thick), (flow control valve 16mm) control valve (Ball) 32mm, 40mm, 50mm,63mm), (1" Disc filter 130 micron 3-5 m ³ / hr), 1,1/4 130micron 12m ³ / hr., 2" 130micron 20m ³ /hr.) , (Media /Sand filter with back flush assembly 10 ³ /hr, (By pass assembly 2"x 1.5" or 1.5" x1.5"),(Ventury ¾ " with flow meter and flow regulator),(Fogger cross with anti drains valve at spacing of 2 x 2 meter with discharge of 28 LPH at 35 hect), (Tube stabilizer), tube pressure gauge (Glycerin filled), (fitting and accessories) etc.			
	1	Drip fogger system for 40 Sq m covered area.	40	230.00	9,200.00
	2	Drip fogger system for 100 Sq m. Covered area.	100	125.00	12,500.00
	3	Drip fogger system for 250 Sq m. covered area.	250	95.00	23,750.00
	4	Drip fogger system for 2x250 Sq m covered area.	500	85.00	42,500.00
	5	Drip fogger system for 500 Sq m covered area.	500	85.00	42,500.00

Note: - i)The farmer will provide required quantity of quality water in a storage structure at one corner of the Poly-house at a reasonable distance of 10 to 20meters. The assistance of 50% is available for water storage structure and augmentation of water source up to a limited nos. as in number of cases, the use of such type of existing structure will be ensured.

ii) The farmer will also provide suitable pumping units of required capacity for which assistance under water source development and augmentation is available .Assistance for small pumping units up to limited nos. is also available up to 50% with a maximum ceiling of Rs. 3133/-. Only .

Annexure- IV

Specifications for Providing Cladding Materials Approved Rates per Sq. mt.

Sr.No.	Description	Unit	Approved Rate Per Sq m Rs
1	Supply of Cladding Material / U.V. Poly Films: 1)Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same and the minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The poly film should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required.		
	Supply of Cladding Material / U.V. Films (a)1 &2	(Sq m)	36/-
2	Supply of Cladding Material / U.V. Poly Films: Poly film should have a minimum warrantee of 2 years with regard to U.V. stabilization and should have more than 70% transmittance during the first two years and not less than 65% during the entire life of the poly films. In the event of spoilage / degradations prior to the agreed productive life, the firm/ company is liable to replace the same and the minimum thickness of the poly film will be 200micron or 120 GSM, as the case may be. The ploy films should have ISO certification and ISI specifications. Test reports of approved test houses or test report from manufacturer with regard to given specifications are also required . U.V. stabilized film should block U.V. radiations up to 400 nanometer. Poly film should have good thermic effect more than 60%. Films should have properties like anti-drip, anti- fog, anti-dust, light diffusion capacity above 50% etc.		
	Supply of Cladding Material / U.V. Films (b)1,2&3	Sqm	43/-
3	Supply of U.V. Stabilized multilayered x-laminated sheet as per IS 14611:1998 Specifications 200 GSM (For Pond Lining)	Sqm	70/-

Annexure-V

List of Empanelled Firms/Companies For the Construction of Poly-Houses and Micro- Irrigation Systems only under Protective Cover (Poly -Houses)

Sr. No	Empanelled Firms/Companies	Poly House Models for which firm is empanelled
1.	M/S Harvell Agua India Ltd, 301-304, Meghdoot 94, Nehru Palce, New Delhi	All models except A ₁ to ,A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
2.	M/S Techno Green, Plot No 9-A, Industrial Area, Bilaspur H.P.	All models except A ₁ to ,A ₃ , B ₁ to B ₄ , C ₅ & C ₆ , Z ₁ ,Z ₂ & Z ₃
3.	M/S Jain Irrigation Systems Ltd, SCO-218-219, 3 rd Floor, Sector 34-A Chandigarh	C ₁ & C ₂ (b), C ₃ & C ₄ (d), C ₅ & C ₆ (b), C ₇ & C ₈ (d), C ₉ & C ₁₀ (b), C ₁₁ & C ₁₂ (d), D ₁ & D ₂ (b), D ₃ & D ₄ (d), D-AL ₁ & D-AL ₂ (b), & D-AL ₃ & D-AL ₄ (d), Z ₁ (b)
4.	M/S Green Tech Agri-Sector Pvt Ltd, Near Escort Tractor Agency , Ner Chowk, Mandi H.P.	All models except A ₁ to ,A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
5.	M/S Plastro Plasson Industries India Ltd, Plot No 399, Urse –Taluka Maval, Distt. Pune	All models except A ₁ to ,A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
6.	Shivalik Agro Engineer, Bye pass road, Near DAV School, Solan , H.P.	All models except A ₁ to ,A ₃ , B ₁ to B ₄ , Z ₁ , Z ₂ & Z ₃

Annexure-V

List of Empanelled Firms/Companies for the Construction of Poly-Houses

Sr. No	Empanelled Firms/Companies	Poly House Models for which firm is empanelled
1	M/S Pamico Industries, Sirat Road, Mohatali, Distt. Kangra, H.P	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
2	M/S Ira Industries, V.P.O. Basal, Tehsil & Distt. Solan, H.P.	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
3	M/S Complete Green Solutions Pvt. Industrial Area Kurali, Plot No.13-14, Punjab	C ₉ & C ₁₀ to C ₁₁ & C ₁₂
4	M/S Surya Structural's, Bye Pass Road, Kather, Solan, Distt. Solan, H.P.	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₁ , Z ₂ & Z ₃
5	M/S Phaur Agro. Tech, WZ 75, Todapur near Inder Puri, New Delhi-110012.	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
6	M/S Thakur Brothers, Green House Consultants, 6-A Diara Sector, Near Luxmi Narayan Mandir, Bilaspur, H.P.	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
7	M/S Swati Industries, Near Saproon, Distt. Solan, H.P.	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
8	M/S Himalayan Flora, Bilayat Cottage, Tutikandi, Shimla-4, H.P.	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
9	M/S Churah valley, Fruits Vegetables, Flower Growers, Co-Operative Society Ltd. Bhanjraroo, Distt. Chamba, H.P.	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
10	M/S Flori -Tech India 17-B/ 27, DBGR. Dev. Nagar, Karol Bagh, New Delhi	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃
11	M/S Rajdeep Agri. Products Pvt. Ltd, 3279/1 Ranjeet Nagar, New Delhi-110008	All models except A ₁ to A ₃ , B ₁ to B ₄ , Z ₂ & Z ₃

Annexure-V

List of Empanelled Firms/Companies For Installation of Micro-Irrigation Systems only under Protective Cover (Poly –Houses)

Sr. No	Empanelled Firms/Companies	Poly House Models
1.	M/S Netafim Irrigation India Pvt. Ltd. ,New Delhi.	All models except A ₁ to A ₃ and Z ₁ , Z ₂ & Z ₃
2.	M/S Harvell Irrigations Pvt. Ltd. SCO-110-111, Sector -8C, Madhya Marg, Chandigarh 160018.	All models except A ₁ to A ₃ and Z ₁ , Z ₂ & Z ₃

Annexure-VI

AGREEMENT BETWEEN FARMER AND ELIGIBLE FIRM/COMPANY(SERVICE PROVIDER) FOR THE CONSTRUCTION OF POLY HOUSES AND INSTALLATION OF MICRO IRRIGATION SYSTEM.

(On judicial paper to be attested by 1st class Magistrate)

This agreement made this _____ day of _____ between Shri/Smt. _____ R/o _____ (hereinafter called the farmer of the first part) and Shri _____ S/o _____ R/o _____ (hereinafter called the service provider. He can be a proprietor of the firm/company or authorized representative duly authorized by the firm or company to sign and enter into as agreement).

It is hereby agreed between the parties as follows:

- (1) The farmer will provide well leveled land to the firm/company for the construction of poly house and shall provide water source for installation and operationalisation of micro-irrigation system for irrigating the crops to be grown under protected cover.
- (2) The farmer will select the model and design of poly house out of models and designs approved by the Department of Agriculture and will fix suitable time schedule for the installation/construction of infrastructure.
- (3) Farmer will be provided specifications of the construction material to be used for the construction of poly house/micro-irrigation as per approved design by the Department of Agriculture.
- (4) The service provider will arrange specified construction material and will execute the work within the time schedule fixed by the farmer.
- (5) Before construction, the farmer will inspect the material and ask subject matter specialist of block i.e. PIA to inspect and verify the specifications of construction material.
- (6) The service provider will execute the construction work of poly house/micro-irrigation system to the satisfaction of the farmer.
- (7) Farmer will make payment to the service provider as per mutually agreed terms and conditions.
- (8) In case of default/deviation from the agreed terms and conditions, the parties concerned will be liable for the following.

(b) Loss accrued to the farmer by way of non construction of structure/installation of irrigation system the service provider will be liable to make good the loss. In case there is any construction defect or non specified construction material is used by the service provider and due to this if amount of assistance is deducted by the project sanctioning authority, in that case farmer would be entitled to get this amount from the service provider.

(c) In the event of non release of payment timely to the service provider, the farmer would be liable to pay interest at the prevailing rates for the delayed periods.

(9) As provided in the clause (7) of the Arbitration and Conciliation Act, 1996 both parties agreed to sign "arbitration agreement" to submit to arbitration all or certain disputes which may arise between us in respect of above mentioned terms and conditions from S.No.1 to 8 and are to be decided by arbitrator to be appointed by the govt.

(10) In witness whereof the said _____ and _____ have hereto respectively signed this agreement on the day year first hereinabove written.

Witness

(1) _____

(2) _____

Signature

Farmer

Service Provider

RATES APPROVED FOR 500 SQM POLY HOUSES OF DIFFERENT MODELS

Sr. No	Particulars	Model	Size of Unit (Sqm)	Approved Rates (Per Sqm)
1	2	3	4	9
1	Medium Cost Modified Side Ventilation Poly -House	CH I-AL ₁ And CHI-AL ₂	504.00	720
	Medium Cost Modified Side Ventilation Poly -House	CH I-AL ₃ And CHI-AL ₄	504.00	745
2	Medium Cost Modified Side and Top Ventilation Poly House	DT -AL ₅ and DT-AL ₆	504.00	761
	Medium Cost Modified Side and Top Ventilation Poly House	DT -AL ₇ and DT-AL ₈	504.00	787
3	Medium Cost Modified Side and Top Ventilation Poly House	D-HI -AL ₁ & D-HI-AL ₂	504.00	745
	Medium Cost Modified Side and Top Ventilation Poly House	D-HI -AL ₃ & D-HI-AL ₄	504.00	770
4	Medium Cost Modified Side and Top Ventilation Poly House(Hockey Type)	D-HI -AL ₅ & D-HI-AL ₆	504.00	761
	Medium Cost Modified Side and Top Ventilation Poly House(Hockey Type)	D-HI -AL ₇ & D-HI-AL ₈	504.00	787
5	Medium Cost Modified Side and Top Ventilation Poly House(Hockey Type)	D-HI -AL ₉ & D-HI-AL ₁₀	544.00	750
	Medium Cost Modified Side and Top Ventilation Poly House(Hockey Type)	D-HI -AL ₁₁ & D-HI-AL ₁₂	544.00	775
6	Low Technology Special Model Poly -House for Snow Bound Area with out shade net	Z ₃	40.00	1500