



**GOVERNMENT OF HIMACHAL PRADESH
DEPARTMENT OF AGRICULTURE**

STANDARD OPERATIONAL GUIDELINES

FOR

**IMPLEMENTATION OF PROJECT
ON
PRODUCTION OF VEGETABLES UNDER
PROTECTED CULTIVATION**

(FUNDED BY – NABARD RIDF – XIX)

2014

Dr. Y.S. PARMAR KISAN SWAROZGAR

YOJNA

**IN
HIMACHAL PRADESH**

INDEX

Sr. No	Contents		Page No.
1.	INTRODUCTION		1 to 15
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.		
8.	MONITORING AND EVALUATION.		
9.	FACILITATION TO THE FARMERS.		
10.	EXPECTED OUTCOME.		
11.	ANNEXURES		
1.	Annexure-I	Application Form for the assistance under Dr.Y.S. Parmar Kisan Swarozgar Yojna.	16 to17
2.	Annexure-II	Format to be filled in by the PIA for submission to DNO for obtaining Administrative Approval of the project proposal.	18 to 19
3.	Annexure-III	Undertaking to be given by the beneficiary in the shape of affidavit to be attested by the Notary (After receiving the sanction from DNO).	20 to 21
4.	Annexure-IV	Specifications of Poly –House Structures and Model-wise approved per Sqm covered area and Unit Costs.	22 to 39
		Specifications of G.I. Pipes	40 to 41
		Specifications for providing and Supplying of cladding materials, Approved rates per Sqm. and list of authorized suppliers.	42 to 43
	Annexure-IV (a)	Specifications for Installation of Micro-Irrigation Systems under Protected Covered area (inside polyhouse), Approved rates per Sqm covered area and Unit Costs.	44 to 45
5.	Annexure-V	Agreement between farmer and empanelled firm / company (Service Providers) for c/o Poly-House and installation of Micro-Irrigation Systems.	46 to 47
6.	Annexure-VI	Performa for maintaining beneficiary wise record	48
7.	Annexure-VII	Authorization by DNO for c/o of Poly –House / Installation of Micro-Irrigation Systems inside polyhouses / Creation of Water Source.	49 to 50
8.	Annexure- VIII	Terms and conditions to be followed/ observed by the companies shortlisted on the basis of the technical and financial bids to act as service providers for the construction of Poly –Houses and Installation of Micro-Irrigation systems i.e. Part A and Part –B	51 to 53

1. INTRODUCTION:

There is a great variation in agro-climatic conditions in the Pradesh which ranges from sub-humid sub tropical to dry temperate zones. Due to these climatic variations, varieties 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 availability of main input i.e. water is also critical owing to unevenly distribution of rainfall and vagaries of monsoon. During recent past, vegetable growers in the Pradesh have suffered heavy losses due to excessive incident / pressure of biotic and abiotic components of the environment. In areas, which experience very heavy rainfall, hailstorm, high velocity winds, frequent dry spells mainly due to changed patterns of weather, vegetable growers had no choice but to leave cultivation of sensitive, inputs intensive although highly remunerative cash crops. Also due to extreme climatic conditions, such as long winter season, excessive heat, snow etc. in different parts of the Pradesh, farmers grow only one crop with low levels of productivity. In spite of all these constraints and limitations, the State has made remarkable progress in diversifying area from traditional food grains to high value vegetable crops which fetch high income to the farmers. Annually about 13.5 lakh tonne vegetables are produced and marketed within and outside the State. There is great potential to diversify area through development and creation of water potential and its economic use. There is also urgent need to create infra-structure like protected cultivation, marketing and value addition at farm level.

Vegetables in general and green leafy vegetables in particular provide essential minerals, vitamins and thus form vital component of human nutrition and to induce resistance to combat diseases. Also there is more demand for safe and quality farm fresh products.

In view of physiographic, soil types, variability in climate, latitudes and need of the farmers and consumers, a project on “**Production of Vegetables under Protected Cultivation**” was posed for NABARD loan funding under RIDF-XIX. The same has been approved for Rs.11118.55 lakh. The project period is four years starting from 2014-15 to 2017- 18. Project components include construction of location specific

models of poly houses with micro irrigation facility. **For this, 85% project assistance shall be provided to the farmers. Also for creation for water sources individually and collectively by a group of farmers (Low/medium lift, pumping machinery), 50% subsidy shall be provided.** With the adoption of protected cultivation technology, farmers are growing high value cash crops like capsicum, tomato, cucumber, leafy vegetables etc. The productivity of crops is 4 to 10 times higher and quality of produce is better. The incidence of pests and diseases is very low with better management. The cost of production has reduced considerably due to efficient use of precious inputs and the production is of better quality.

Taking into consideration the response of the farming community, past experience of the service providers in implementation of similar type of the project and suggestions from the experts of SAUs and progressive farmers, the guidelines have been formulated so that the objectives set under the project are achieved in full. Some new models with fan & pad system have also been introduced so that farmers can derive better benefits per unit area per unit time. It is impressed upon the project implementing agencies that “**cluster approach**” be followed and project benefits must flow to the needy and deserving sections of the farming community i.e. small and marginal farmers. They should get preference over other farmers. They need to be more proactive so as to achieve the project targets timely and effectively. It is also expected that District Nodal Officers, the Project Implementing Agencies at block level and Service Providers must formulate plans block-wise so that project activities could be implemented smoothly in a time bound manner. The operational guidelines have been prepared for guidance of the farmers, PIA’s and service providers. Therefore, with complete coordination amongst the project managers, implementers, farmers, service providers etc. the cherished goals and objectives enshrined under the project would be achieved and the project benefits would flow to the farmers and their socio-economic condition would improve.

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 small and marginal farmers and provide gainful employment to rural youths and local artisans and other workers etc. project on

“Production of Vegetables under Protected Cultivation” renamed as **Dr. Y. S. Parmar Kisan Swarozgar Yojna** shall be implemented. The project shall be implemented in all the Districts keeping in view the potential in each district. Project components include creation of need based infrastructure and are expected to fulfill following objectives:-

- ❖ Higher productivity and better quality of produce.
- ❖ Cultivation of cash crops under protective cover will provide safeguard against adverse weather and will enhance life span of crops.
- ❖ To get higher productivity on sustainable basis through adoption of precision farming practices like precision planting/seeding, fertigation, micro-irrigation, weed management, pest and disease management etc.
- ❖ Efficient inputs use and reduction in cost of production.
- ❖ 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 (2014-15 TO 2017-18)

Sr.No.	Component	Nos.	Covered area
1	Poly Houses Framed structure	4700 Nos.	835350 Sqm..
2	Micro Irrigation (Sprinkler/Drip System Poly Houses as per feasibility)	2150 Nos.	820050 Sqm..
3	Low lift, medium lifts & pumping machinery 1 HP with poly houses as per feasibility.	870 Nos.	-
5	Total cost of civil works	Rs.10178.10 lakh.	
6	Farmers Sensitization, contingency and Cost Escalation.	Rs.940.45 lakh	
	Total Project Cost.	Rs.11118.55 lakh.	

4. PROJECT AREAS, BENEFICIARIES AND HOW TO APPLY:

Project shall be implemented for the benefit of farming community in all the Districts of the State. District-wise targets shall be fixed with regard to different project components as per demand from the farming community of the concerned districts through DNOs. However, with in 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. Among farmers, small and marginal farmers shall get preference over other farmers.

Beneficiaries:

1. Farming families directly dependent on agriculture, preference to SF/MF.
2. Unemployed educated youths having farm land shall also get priority.
3. Other farmers who are innovative and are following practices like organic farming, INM, IPM etc.
4. Farmers of the areas having production constraints such as hailstorm, water stress, very high rainfall, frost, severe winters etc.
5. Priority should be given to weaker section of the society i.e. SC & ST including BPL farmers.

The beneficiaries as envisaged above 1-5 shall be eligible for sanction of poly houses if they have already got the training on poly house cultivation and if not, training shall be organized by the department in coordination with SAUs before sanction of poly house. Prior training in poly house technology would be compulsory.

All components of the projects 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 poly house construction. **The farmer assistance shall be available for covered area upto 2000 sqm. Farmers who have already constructed poly houses in an area of 2000 sq m. or more covered area under Kisan Bagwan Samridhi Yojna/ RKVY/ HTM or any other Govt. subsidy scheme shall not be eligible for assistance under this project. In case of poly tunnel of 6 sqm., a farmer can avail assistance upto 5 poly tunnels maximum.**

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 and Tatima of land, where he wants to construct poly house

structure / water source. The PIA (Subject Matter Specialist) shall give his report to DNO on prescribed proforma **Annexure-II**. Farmers shall have to give an undertaking in the shape of an affidavit **Annexure-III**, that in the event of departure from the above undertakings, he will be not illegible for project assistance and shall be liable to refund the whole or part of the project assistance availed, to the Department of Agriculture. The affidavit would be on a judicial paper and must be attested by the Notary.

The list of empanelled service providers for construction of Poly Houses / Micro-Irrigation System inside the polyhouses will be circulated separately. The construction material to be used for the construction of poly houses and installation of other related infrastructure i.e. Irrigation system, lift etc. should be as per the specifications approved and provided in the document enclosed at **Annexure-IV**. 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 prescribed and approved. Farmers will not be eligible for assistance if the structures are not constructed as per approved designs and with material of approved specifications. In case farmer avail bank loan, in that case, project assistance shall be released to the bank, so as to adjust the loan component of the bank. However, when poly-houses structures are constructed and M.I. Systems are installed through empanelled companies, in that case, payments can be released by DNOs directly to the service provider after obtaining satisfactory completion report from PIAs and beneficiary. For that, authorization to release payment to companies be obtained from the beneficiary. 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. Farmer will have to sign an agreement with empanelled company in agreement form enclosed as per **Annexure -V** before starting construction. 15% beneficiary contribution shall be deposited with Block SMS in shape of Bank Draft which will be released to service agency after the material is stocked at site and work is started.

5. ROLE AND RESPONSIBILITY OF PROJECT IMPLEMENTING AGENCY:

Subject Matter Specialist working in the Development Blocks will be the PIA's. They will be assisted by a core team comprising of ADO, JE, AEO (Graduate / Post graduate). PIA's and his core team shall be responsible for the following:-

1. After receipt of the application on prescribed Performa from the beneficiary, the same shall be entered in a **Register and Sr. No. and date of receipt** shall be assigned to that application.
2. He and his core 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 on parameters like aspect, direction and orientation etc. **The selection of models may be done as per Agro-ecological Situations of the block and in consultation with the Service provider concerned, keeping in view all the above parameters.** In case, some site development is required, then the farmers will be guided accordingly and the farmer is required to provide well leveled field / site for the construction of poly house to the empanelled company at the time of signing of agreement.

Parameters of selection of models :

- i) In warmer areas, D-Models (Side and Top ventilation) of poly houses may be recommended with shade nets only.
 - ii) D-Models with Fan & Pad systems are also recommended for warmer areas.
 - iii) No poly house is to be sanctioned without drip and fogger systems as per requirement of the covered area.
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** columns and will forward the same to the project sanctioning authority (DNO) for administrative approval along with estimate of poly houses structure, micro-irrigation and water sources etc. as the case may be **within 10 days** after inspection. To obtain Administrative / financial sanctions, the indicative estimates provided separately can also be considered for which estimates have already been provided.

4. Will exercise 100% test check during different phases of the execution of the project components. However, it is mandatory for PIA and his core team to undertake the following:-
 - Verification of developed site before signing the agreement or initiation of construction work after the receipt of sanction from DNO.
 - To witness the signing of agreement between farmers and company.
 - Verification and certification of construction material dumped at the site for construction of poly house and installation of MI system.
 - Preparation of estimate of water source.
 - Test check and completion report within **10 days** after the complete construction of poly house and related infra-structure.
 - Submission of all bill vouchers within **5 days** after completion report of polyhouse / MIS to the DNO. The PIA will submit the bill of poly house on the completion of poly house structure without waiting for the installation of MIS for which bill can be submitted separately.
5. If the farmers want to avail credit, necessary facilitation shall be provided by the PIA for formulation of project for bank finance.
6. PIA will ensure that farmer willing to avail assistance under the project must get training in the selected institution SAU / UHF before construction of poly house, if he has not got training earlier.
7. He and his team will be responsible for quality control of construction, use of specified construction material and for timely construction of structure to ensure timely utility by the beneficiary. In case of any delay at farmer or company level, he will report the same to the DNO.
8. Shall be responsible for preparation and submission of claims of project assistance along with photograph of poly house with farmers, bankers as the case may be to the project sanctioning authority i.e. DNO. The project assistance to be recommended on approved cost or only on actual cost basis, whichever is less.
9. Will submit project completion reports on the prescribed format to the District Nodal Officer timely after inspection or joint inspection in case of bank loan where bank loan was availed.

10. Submission of progress reports and reimbursement claims to the District Nodal Officer every month on prescribed format.
11. Facilitation for signing of the agreement as per **Annexure-V** between the farmer and service provider (firm/company) for construction of green house and installation of MI systems inside poly houses. He along with one local person will sign the agreement as witnesses.
12. PIA will have to maintain beneficiary-wise record as per **Performa VI**.

6. ROLE AND RESPONSIBILITY OF DISTRICT NODAL OFFICER:

For smooth and effective implementation of project, Deputy Director of 10 Districts and District Agriculture Officer of Lauahl & Spiti and Kinnaur and APO, Kaza and SMS Pangi & Bharmour will be Nodal Officers for the Districts / ITDP Blocks respectively. 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, and J.E.

1. The core team will delineate areas in district having production 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 project assistance, so that they can start growing cash crops under protective cover.
2. The DNO's will convene a **one day meeting-cum-workshop** in the beginning of the year involving all the stakeholders i.e. PIA's and his core team, district level and sub division level officers, DE of the Zone, FAC members. KVK Scientists etc. During workshop, a presentation be made on operational guidelines, physical and financial targets fixed for the district for the year. Targets may be fixed block-wise on the basis of information generated by the core team of district as per item No.1 and targets be fixed for the blocks component wise. Role and responsibilities of each member of core team at district and block be discussed and outlined. The proceedings of workshop / meeting be sent to the Directorate immediately. Training calendar of officials / farmers be prepared in consultation with KVK Scientists/SAU. **A team to oversee and coordinate production of vegetables by the poly house farmers, be constituted in each district.**

3. Will organize awareness campaign at focal points and educate farmers about the project details. During the awareness campaigns, the willing farmers be provided the prescribed application forms and necessary guidance as to how they can avail project assistance.
4. 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 Department in consultation with SAU. UHF Solan shall also be associated in training by following common training module and cost norms approved by the Department.
5. (a) D.N.O. shall issue administrative approval after scrutiny of the cases within 10 days from the date of receipt of cases from PIA's with a copy to the concerned bank, in case of Bank Loan. DNO will ensure that the copy of GI Pipe specifications, cladding material & list of empanelled companies are supplied along with authorization letter to the concerned beneficiary.
(b) The DNO shall issue authorization letter in favour of the beneficiary after he gets training 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-VII**. This format shall be applicable, when agreement for development of infra-structure is to be signed by the farmer with service provider.
6. DNO shall sanction the projects and project assistance as per the final assessment and recommendation received from the PIA within 20 days from receipt of such request. Completion period of each sub-project should be more than 90 days from the date of signing of agreement between the farmer and the empanelled company with a further extension on justification. In case, companies fail to complete the construction / installation work within the stipulated time period in that case DNO will initiate action against the company by getting the beneficiary share refunded with 20% interest from the date of signing of agreement. In case company does not repay the deposited amount with interest then the same shall be recovered from the bank guarantee given by the company.

7. DNO will send copies of sanction letters to the executing company (service provider) and to the Bank in case of loanee farmers.
8. DNO and his core team will exercise at least 25% test check.
9. a) **PIA /DNO will point out shortcomings / defects if any in one go after proper inspection , putting objection again and again leads to delay and also it appears that it is being done deliberately to delay the payments. The payments may not be held up without any reason and it should be released as per instructions contained in the guidelines strictly. If such delays are noticed, strict action shall be initiated against the defaulting officers.**
b) The project assistance shall be released to the company directly through RTGS only, but after obtaining consent and completion report from farmers / PIA. DNO will ensure that the payments should be released within **30 days** of the receipt of bills from the PIA.
10. After the completion of sub projects, D.N.O. will submit the PCR's to the Directorate within 30 days for further submission to the NABARD.
11. DNO will prepare and submit model wise and size-wise reimbursement claims also.
12. DNO will maintain beneficiary –wise record on **Performa “V”** and will put the same on departmental web site.
13. **The DNO will ensure the display of sign board by giving full details of beneficiaries, infra structure developed, assistance released and mentioning funded under RIDF-XIX.**

7. GENERALS:

Pragmatic and participatory approach with complete transparency would determine the success of the project. Facilitation with regard to technical knowhow on all aspects of poly house technology would be provided to the farmers so that they can utilize project assistance for creation of infrastructure for protected cultivation of high value cash crops and increased quality production for enhanced farm increase. This will provide self employment opportunities to the rural youths in their farms.

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 installed in the covered area has also been worked out 85% project assistance is available to the beneficiaries for the construction of poly houses and installation of micro irrigation in covered area under this project. **Cost per sq. meter of different models of poly houses and micro- irrigation systems are given at Annexure-IV.** The remaining cost shall be borne by the farmers through his own sources or by bank credit. The project assistance shall be released after completion of the project / sub-projects. Farmers can also avail credit for initial investment from bank through KCC or otherwise which shall be adjusted 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 sources. Component-wise maximum project assistance which individual farmer can avail is given below:

For Poly houses:

- For Bamboo poly houses project assistance @ 85% of cost is available to Small and Marginal Farmers on **EDKE Models**. One farmer can avail assistance for one structure having 140 sqm. covered area and maximum four such structures. Project assistance upto 30 sq. m. covered area can be availed by one farmer in case of poly tunnel of 6 sqm. (**Model A-6**) for nursery raising exclusively.
- One farmer can avail maximum assistance up to 2000 sqm. covered area in case he prefers poly house of 40 sqm.(Model B-40 to B-100) and also other models (Edke Type models). He can also avail assistance in combination with other G.I. models but assistance would be allowed only for total of 2000 sqm. covered area provided he has not availed assistance earlier in any government scheme for this purpose.
- For model C (C-40 to C-504 and C-HT-544 to C-HT-1000), wherein covered areas is 40 sqm. and 100 sqm., one farmer can avail assistance for total covered area up to 2000/2008 sqm. area up to 2000 sqm. can be with 40 sqm. and 100 sqm. poly houses and in combination with other models but the total covered area will remain 2000 /2008/2014 sqm.

- For models (C-252) (D-252) the covered area is 252 sqm. One farmer can avail assistance for total covered area of 2000/2008/2014 sqm.(4x252 sqm.+ other models) or in combination with other models upto the ceiling limit of covered area
- For other models of C & D specifications with covered area of 504 sqm. and 1008 sqm., the assistance would be allowed only for upto 2014 sqm. covered area.
- For snow bound areas model Z (Z-40) are recommended. The maximum covered area is 40 sqm. One farmer can avail assistance for 400 sqm. covered area (10x40 sqm.) **In Tribal areas, construction of poly houses may be done on purely demand driven basis only.**
- Farmers are at liberty to choose any combination of models provided in the project, but the assistance would be available for maximum 2000 sqm. covered area. Project assistance for approved models having covered area more or less than the area mentioned above would be provided as the size of structure would depend upon location/site. Where poly-house has not been constructed with standard length and width due to peculiar field /site conditions, the approved per sqm. rate of that particular model (Technology) will be considered for evaluation. **For models of 100 Sqm. and above, the provision of double door will be compulsory. Whereas for small models i.e. 40 sqm. poly houses the provision of double door will be as per choice of the farmers.** However, in case of poly houses having covered area of 500/504/544 sqm. and covered areas of 2000/2008 sqm., the provision of double doors will be part of the total covered area and that area shall be considered for project assistance along with covered area of main structure. **The area eligible for assistance on account of Annexe Door shall not be more than 6 sqm. in all the cases.** Thus, covered area eligible for assistance would be 506/510/550/1006 and 1014 sqm. for different models of 500/504/544/1000/1008 sqm. respectively. In all the cases, inside measurements of constructed poly –house will be measured for calculation of covered area.
- In case there is variation to the extent of 10 % or less in actual covered area as compared to the original sanction, then there is no need to revise the sanction. However, the farmer will be paid for total covered area. In case due to **site specific** situation, the variation is more than 10%, then revised sanction is required to be issues.

For Micro Irrigation (inside Polyhouse):

Unit cost for different covered areas under drip with fogger systems has been approved and given at Annexure-IV (a). The project assistance @ 85% of unit cost is available to the farmers.

For Augmentation of Water Source:

Farmers can avail assistance for one structure for augmentation of water source as per suitability and requirement. However, it is expected that water source would be available with majority of the farmers or can be availed through MNREGA / IWMP of Rural Development Department, Agriculture Department Schemes, therefore; the number of such structure is not at par with the poly house structures. As per estimates prepared on the basis of analyzed rates, the maximum limit of assistance has been worked out and the same is given below:

- **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 assistance up to Rs.71,000/- and Rs.2,08,500/- respectively. Low lift will be considered up to 3 H.P and medium lift will be considered above 3 HP. Where pumping machinery of more than 7.5H.P. is required, the same is also allowed but subject to maximum level of assistance which would remain Rs. 2,08,500/-. For lifts electric operated pumping machinery as well as Diesel operated pumping machinery is allowed. This will also be available for group of farmers.
- **50% assistance** is available for pumping machinery of 1.0 HP with maximum limit of Rs.3133/- as applicable.

8. MONITORING AND EVALUATION:

Concurrent and post project monitoring and evaluation of project are 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 (SLC) 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 need arises.

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 shall be circulated separately.
- For sensitization, capacity building of extension officers/ farmers, about green house technology, State Agriculture University, UHF Nauri, Krishi Vigyan Kendra, NGO's etc. would be involved.
- Site specific Cost estimates of all the components of the project shall be prepared by the experts of the department.
- For obtaining bank loan, facilitation shall be provided by the Department for preparation of cases.
- 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 eligible firm/company for the construction of poly houses and execution of micro irrigation system.
- To upgrade the skill of farmers regarding poly houses technology two modules of training i.e. basic and advance have been made compulsory and will be provided by the DNO's at SAU, UHF and also KVK's. The record of such training of farmers will be maintained by the respective DNO's.
- The DNO's will motivate and facilitate the farmers for entering in to annual maintainace contract with the company concerned, if they want.

10. EXPECTED OUTCOME:

- 83.54 ha. additional area shall be brought under vegetable cultivation.
- 4 to 10 times higher productivity of cash crops especially vegetables.
- Gainful employment to 15,000 families / educated youths.
- Capacity building and employment to more than 500 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: These guidelines are subject to modifications as and when required during the execution of project.

प्रार्थना पत्र

सेवा में,

उप कृषि निदेशक/जिला कृषि अधिकारी/सहायक परियोजना अधिकारी,
.....जिला.....हि० प्र० ।

विषय : डा. वाई. एस. परमार किसान स्वरोजगार योजना के अर्न्तगत पॉलीहाऊस निर्माण हेतु प्रार्थना पत्र ।

श्रीमान जी,

मैं.....

सुपुत्र/ सुपुत्री/ पत्नी श्री.....

गांव.....डाकघर.....

तहसील.....जिला.....

.....हिमाचल प्रदेश का स्थाई निवासी हूँ । मेरी किसान पास बुक के अनुसार.....मलकीयत भूमी है जिसमें सेभूमि फसल को उगाने के लिए उपयुक्त है । मैं उपरोक्त योजना के अर्न्तगत उपलब्ध वित्तीय सहायता द्वारा पॉली हाऊस {हरित गृह} का निर्माण करना चाहता हूँ । सिंचाई हेतु मेरे पास साधन उपलब्ध है / नहीं है अतः मैं इसके लिए भी आवश्यक सहायता चाहता हूँ /नहीं चाहता हूँ । मैं इस बारे सम्बन्धित विवरण निम्न प्रकार से दे रहा हूँ ।

1.	प्रार्थी का नाम व पूरा पता	
	दूरभाष न०	
2.	क्या प्रार्थी अनुसूचित जाति/ अनुसूचित जनजाति से सम्बन्ध रखता है हां/ नहीं	
3.	क्या प्रार्थी गरीबी रेखा के नीचे { बी.पी. एल}से सम्बन्ध रखता है हां/ नहीं	
4.	कुल भूमि {किसान पास बुक के अनुसार }	
	क) सिंचित क्षेत्र	
	ख) असिंचित क्षेत्र	
5.	पानी का स्रोत	
6.	कुल भूमि जहां पॉलीहाऊस का निर्माण किया जाएगा {खसरा न० सहित} जमाबंदी व तरतीमा संलग्न करें।	

7.	सरकार द्वारा चलाई गई अन्य स्कीमों के तहत निर्मित पॉलीहाउसों पर प्राप्त वित्तीय सहायता व पॉलीहाउस का साईज / मॉडल का विवरण।
	1. किसान बागवान समृद्धि योजना
	2. बागवानी तकनीकी मिशन
	3. राष्ट्रीय बागवानी बोर्ड
	4. राष्ट्रीय कृषि विकास योजना
	5. अन्य योजनाएं
	नोट- प्रत्येक किसान को अधिकतम २००० वर्गमीटर तक सहायता दी जा सकती है यदि उसने पहले किसी भी स्कीम से सहायता न ली हो।
8.	योजना के अर्न्तगत निम्न 1,2,3, मदों के बारे में वित्तीय सहायता हेतु आवेदन, हां / नहीं स्पष्ट करें तथा विवरण।
	1. पॉली हाऊस निर्माण हेतु
	{क} पॉलीहाउस का साईज व मॉडल।
	{ख} कम्पनी का नाम व पता
	2. सूक्ष्म सिंचाई सुविधा हेतु
	{क} टपक सिंचाई (ड्रिप इरिगेशन)
	{ख} कम्पनी का नाम व पता।
	3. पम्प यूनिट के निर्माण अथवा उठाऊ जल योजना के लिए
9.	बैंक से ऋण लेना चाहता हूँ या नहीं। यदि हां तो बैंक का नाम, पूरा पता
10.	मैंने पॉलीहाउस बारे कम से कम तीन दिन का प्रशिक्षण कृषि विश्वविद्यालय से ले रखा है/ लेना चाहता है।

मेरे द्वारा ऊपर दी गई सूचना पूर्ण रूप से ठीक है तथा मैं योजना में दिए गए दिशा निर्देश के अनुसार कार्य करने के लिए तैयार हूँ। अतः मैं आपसे अनुरोध करता हूँ कि मुझे क्रमांक 8 के अर्न्तगत दर्शाये गए मदों हेतु वित्तीय सहायता की स्वीकृति प्रदान की जाये।

मैं यह भी सत्यापित करता हूँ कि उक्त पॉलीहाउस निर्माण हेतु मैंने किसी अन्य सरकारी विभाग / संस्था के अर्न्तगत चलाई जा रही स्कीम में किसी वित्तीय सहायता हेतु आवेदन नहीं किया है/ वित्तीय सहायता प्राप्त नहीं की है।

भवदीय,

किसान के हस्ताक्षर.....

पूरा पता.....

.....
टेलीफोन/मोबाईल न०.....

Annexure-II

Format to be filled in by the PIA for submission to District Nodal Officer for obtaining Administrative Approval of the project proposal.

1.	Date of receipt of Application	
2.	Date of spot inspection	
3.	Category of farmers (SF/MF/Other from SC/ST/Gen./BPL)	
4.	Feasibility report.	
A.	Poly Houses	
	a) Khasra No. and Size of field where farmers intend to construct poly houses	
	b) Size of Poly-house	
	c) Executing Agency	
	d) Empanelled Service Provider with Name & Contact No.	
	e) Estimated Cost (as per A above)	
	f) Amount of assistance (in Rs.).	
	g) Amount of Beneficiary Share (in Rs.)	
B.	Micro-Irrigation System	
	(i) Executing Agency	
	(ii) Area to be covered in (Sq.m).	
	iii) Drip & Fogger Name & contact No. of Empanelled Service Provider	
	Estimated cost of covered area, with system to be installed as per B	
	(i) Amount of Project Assistance (in Rs.)	
	(ii) Amount of Beneficiary Share (in Rs.)	
5. (A)	Feasibility & requirement of water potential as per specifications given in project document/operational guidelines.	
	Lifts (small or medium) (Total Head, Discharge & H.P. of Pumping System)	
5.(B).	Estimate of the sources to be created as per 5A	
	(i) Amount of assistance (in Rs.).	

5.(C).	Requirement of pumping unit (specify purpose & type of pumping unit)	
	(i) Cost (in Rs.)	
	(ii) Amount of assistance (in Rs.)	
6.	Recommendation of PIA to DNO for Administrative Approval.	
	Total estimated cost of Poly-House structure /Micro-irrigation system.	
a)	Eligible cost (in Rs.)	
(i)	Project share (in Rs.)	
(ii)	Beneficiary share (in Rs.)	
7 (A)	Mode of payment of project assistance	
	➤ Directly to the service provider as per undertaking of farmer	
	➤ Through bank (to be specified) in case Beneficiary willing to avail credit facility (Full Name & Address of Bank)	
7(B)	Beneficiary would contribute his share as per procedure given in the guidelines.	
8.	Training on Polyhouse Technology got by the Applicant from SAUs for atleast three days or recommended for training.	

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-III 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 along with necessary estimates and documents.

SMS-cum- PIA ,
Dev. Block _____
Distt. _____ H.P.

Annexure –III

Undertaking to be given by the Beneficiary in the shape of affidavit to be attested by the Notary (after receiving the sanction from District Nodal Officer)

I / we.....S/o Sh.-----
.....R/o -----
.....

....do hereby undertake the following:

1. That I have received approval for the construction of poly house (.....sqm.), Micro irrigation System (.....sqm.) and for the creation of water resource i.e. 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 provide my own undisputed well leveled land for the construction of poly house with Micro Irrigation System and Water Source , to the firm (from the empanelled list) opted by me. If any dispute arises for the non execution or delay in work then the dispute will be resolved between me and the firm at our own level.
3. I undertake that I will sign an agreement with service provider within 15 days from the receipt of authorization.
4. That I will utilize and maintain the infrastructure created through Project Assistance for a period of minimum five years and in case of any damage to Poly house by the storm, wild animals, Land Slide, Fire etc. or any other calamity, I will repair the poly house at my own cost and the Department or service provider shall not have any liability for that.
5. That I will use the poly house for raising vegetable crop mainly.
6. **That I have not availed any assistance for the creation of same infrastructure as approved as per Sr. No. 1 above. In case assistance availed give details.**
7. That the content of my application submitted to the Agriculture Department for sanction of Project Assistance under **Dr. Y. S. Parmar Kisan Swarozgar Yojna** are correct and no part of it is wrong and nothing has been concealed there from.
8. That I will pay beneficiary share (15%) for the installation of infrastructure (Poly house or Micro Irrigation or both) at the time of signing of agreement to SMS (Agri.) in the shape of Bank draft prepared in favour of service provider against sanctioned amount of these components which have been approved vide letter No..... dated by the District Nodal Officer (Deputy Director of Agriculture / District Agriculture Officer / Assistant Project Officer) as per terms and conditions laid down for the operationalization of the scheme.

9. That I will provide well leveled field / site for the construction of this infrastructure at my own cost before signing of the agreement.
10. That I will bear the carriage charges of construction material from the pucca or katchha road head to the site.
11. That I will make arrangement for electricity and water etc at the site.
12. That I will facilitate for making stay arrangements of the workers during construction period.
13. That I will bear the expenditure for extra features and optional items.

I, further undertake that in the event of departure from the above i.e. Sr. No. 1 to 12, 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 there from.

Verified at on this day
of 2014.

Deponent

Note:- To be attested by Notary

Annexure-IV**Model –wise Specifications, Description of Construction material and Dimensions of Poly Houses and Unit Cost**

Sr. No.	Model	Model -wise Description of Construction material and Dimensions of Poly Houses	Unit Size in sqm.	Rate Per sqm. Covered Area (in Rs.)
1.	A-6	<p>Very Low Cost tunnel Poly House with G.I. Pipe Frame structure as per approved standard Drawing & design</p> <p>Dimension</p> <p>Length 4.00 mtr. (Spans at 1.00m each), Breadth 1.50 mtr. Centre height 1.50 mtr. (Semi circular).</p> <p>Material</p> <p>G.I. Pipe (A-Class) frame 15mm diameter Covering with suitable U.V. stabilized poly sheet of 200 Micron.(150 GSM), the sheet is to be attached to the structure for quick removal and fixing .</p>	6 Sqm.	820.00
2.	B-40	<p>Low Cost Side Ventilation Poly House. (With Shade Net) with Bamboo Frame Structure as per approved standard Drawing & design.</p> <p>Dimension</p> <p>Length: - 10.00 mtr. (Spans at 2.00m each), Breadth:- 4.00 mtr. Centre height: 2.00/ 4.00 mtr. (Triangular).</p> <p>Material for Sub Structure:</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe ,Size of Pit ;- 0.40x0.40x0.75m- 14 Pits HDPE Pipe of 65mm dia, 0.75m long for Supporting of Bamboo Post into ground -14No. Wind Bracing , For rolling up system and Truss of Bamboo treated with termite solution having Short Tie, King Post, Tie Rafter, Ridge, Long Tie , Front & Back Tie. Bamboo Strip for fixing of U.V. Sheets One Door of size 1m x 2m of Bamboo frame Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing. Insect Net of 20 to 40mm Mesh U.V. Proof on all around Ventilation of the Poly Houses Shade Net: Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p>	40Sqm.	520.00

		Processing, fabrication and erection with all fitting and accessories		
3.	B-100	Low Cost Side Ventilation Poly House. (With Shade Net) with Bamboo Frame Structure as per approved standard Drawing & design.	100Sqm	520.00
		Dimension		
		Length: - 25.00 mtr. (Spans at 2.50m each).		
		Breadth:- 4.00 mtr.		
		Centre height: 2.00/ 4.00 mtr. (Triangular).		
		Material for Sub Structure:		
		Foundation for Column including earth work in foundation & C.C. 1:3:6 for encasing column pipe ,Size of Pit ;- 0.40x0.40x0.75m – 29 Pits		
		HDPE Pipe of 65mm dia, 0.75m long for Supporting of Bamboo Post into ground – 29No.		
		Wind Bracing, For rolling up system and Truss of Bamboo treated with termite solution having Short Tie, King Post, Tie Rafter, Ridge, Long Tie , Front & Back Tie.		
		Two Annexe Door of size 1m x 2m of Bamboo frame		
		Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing		
		Insect Net of 20 to 40mm Mesh U.V. Proof on all around Ventilation of the Poly Houses		
		Shade Net : Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.		
		Processing, fabrication and erection with all fitting and accessories		
4.	EDKE Type :- E-1	Low Cost Modified Side Ventilation EDKE-Type Bamboo Structure Poly House. as per approved standard Drawing & design.	140Sqm	540.00
		Dimension		
		Length: - 28.00 mtr. (Spans at 4.00m each),		
		Breadth:- 5.00 mtr.		
		Centre height: 2.10/ 3.60 mtr. (Triangular).		
		Material for Sub Structure:		
		Foundation for Column including earth work in foundation & C.C. 1:3:6 for encasing column pipe ,Size of Pit ;- 0.35x0.350x0.60m-23 No.		
		G.I.Pipe of Hot Galvanized I.S.I Marked, Twin Pipes of 15&20mm mm dia of 1.20mtr long each for Supporting of Bamboo Post into ground (41No.)		

		<p>Column Post: Twin Bamboo Vertical Post of 65mm dia -36No and Single Bamboo vertical post of 65mm dia for Annex Door.-5No.</p> <p>Truss : 50mm dia Bamboo Truss-8No , Struts and Tie of 40mm dia Bamboo – 8No.</p> <p>Side ties-6No, Purlin- 6No., Top short side Tie-9No: 40mm dia Bamboo.</p> <p>Two Annexe Door of size 1m x 2m of M.S. Square Tube 32mm x32mm frame , Single Bamboo vertical post of 65mm dia .-5No.40 mm dia for Annex door.</p> <p>G.I. Profile Spring and Accessories</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.</p> <p>Insect Net of 20 to 40mm Mesh U.V. Proof on all around Ventilation of the Poly Houses.</p> <p>Shade Net: Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
5.	C-40	<p>Medium Cost Side ventilation Poly house (As per standard Design & Drawing Approved)with G.I. Pipe (A Class).</p> <p>Dimension</p> <p>Length : 10.00 mtr. (Spans at 2.00m each).</p> <p>Breadth : 4.00 mtr.</p> <p>Side /Centre height : 2.00/4.00 mtr. (Semi circular type).</p> <p>Material for Sub Structure:</p> <p>Vertical Column Post: 12no and Horizontal Pipe: 32 mm dia G.I. Pipe.2.65 thick.</p> <p>Central Vertical Post- 4 No & Semi Circular Hoop – 6No.;25mm dia G.I. Pipe.</p> <p>Ridge & Purlin- 3no, Wind Bracing- 4No., Horizontal & Vertical Ties: 12 No& Rolling up Pipe for shade net -4No.15mm dia G.I. Pipe</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p> <p>Insect Net of 20 to 40mm Mesh U.V. Proof on all around Ventilation of the Poly Houses.</p> <p>Shade Net: Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p>	40 Sqm.	1650.00

		Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.		
		Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.		
		Door of size 1m x 2m of M.S. Square Tube 32 x 32 mm.		
		Foundation for Column including earth work in foundation & C.C. 1:3:6 for encasing column pipe, Size of Pit :- 0.35x0.35x0.75m.		
		Processing, fabrication and erection with all fitting and accessories.		
6.	C-105	Medium Cost Top & Side Ventilation Poly House. (With Shade Net). (As per standard Design & Drawing Approved) with <u>G.I. Pipe (A Class) Frame Structure</u>	105Sqm	1430.00
		Dimensions		
		Length: 15.00 mtr. (Spans at 2.50m each),		
		Breadth: 7.00 mtr.		
		Side /Center height : 2.50/4.00 mtr. (Semi circular type).		
		Material Of Sub Structure:		
		Vertical Column Post: 14no and Horizontal Pipe: 32 mm dia G.I. Pipe.		
		Central Vertical Post- 6 No & Left & Right Arc – 14No, Wind Bracing- 4No., Long Tie – 2no & Short Tie Beam -7No, :25mm dia G.I. Pipe.		
		Ridge - 1no, Pipe along insect net -2No. King Post-7no., Top Vent Tie -7no., Right & Left Tie: 14No:-20mm dia G.I. Pipe.		
		Purlin- 4no, Rolling up Pipe for shade net -4No.15mm dia G.I. Pipe.		
		Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminum Profile.		
		Insect Net of 20 to 40mm Mesh U.V. Proof on all around Ventilation of the Poly Houses.		
		Shade Net: Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.		
		Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses		
		Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.		

		<p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>i) Vertical Post -3 No, 25 mm Dia G.I. Pipe ii) Horizontal Pipe -3 No , 20 mm dia G.I. Pipe.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit ; - 0.35x0.35x0.75m -23Pits.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
7.	C-126	<p>Medium Cost Top and Side ventilation Poly house (As per approved standard Design & Drawing) G.I. Pipe (A Class).</p> <p>Dimensions</p> <p>Length : 12.00 mtr. (Spans at 4.00m each), Breadth : 10.50mtr.</p> <p>Side /Center height : 3.20/4.60 mtr.with Top Vent Ridge Height 5.60M (Semi circular type).</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 14no and King Post-4 No : 50 mm dia G.I. Pipe Semi Circular Left & Right Arc – 8No, Short Main Tie- 4no. and Ridge Pipe: 40 mm dia G.I. Pipe. Long Main Tie- 3No & Wind Bracing- 8No : 32mm dia G.I. Pipe Pipe along insect net -2No, Right & Left Tie: 8 No, Right & Left side inclined strut-8 No. and Central Vertical Posts- 9No.: -25mm dia G.I. Pipe Purlin- 3no,Vent Tie – 4no, :- 20mm dia G.I. Pipe Rolling up Pipe for shade net -4No & FOR Handle - 2No:- 15mm dia G.I. Pipe. Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p> <p>Shade Net: Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.</p>	126Sqm	1440.00

		<p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe ,Size of Pit ; - 0.35x0.35x0.75m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
8.	C-252	<p>Medium Cost Top and Side ventilation Poly house (As per approved standard Design & Drawing.</p> <p>Dimensions</p> <p>Length : 24.00 mtr. (Spans at 4.00m each),</p> <p>Breadth : 10.50mtr.</p> <p>Side /Center height : 3.20/4.60 mtr.with Top Vent Ridge Height 5.60M (Semi circular type).</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 21no and King Post-7 No: 50 mm dia G.I. Pipe.</p> <p>Semi Circular Left & Right Arc – 14No, Short Main Tie- 7no. and Ridge Pipe-1no : 40 mm dia G.I. Pipe.</p> <p>Long Main Tie- 3No & Wind Bracing- 8No : 32mm dia G.I. Pipe.</p> <p>Pipe along insect net -2No, Right & Left Tie: 14 No, Right & Left side inclined strut-14 No. and Central Vertical Posts- 9No.:-25mm dia G.I. Pipe.</p> <p>Purlin- 3no, Vent Tie – 7 no, :- 20mm dia G.I. Pipe</p> <p>Rolling up Pipe for shade net -4No & for Handle - 2No:- 15mm dia G.I. Pipe.</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p> <p>Shade Net: Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.</p> <p>Covering with suitable U.V. stabilized poly sheet of</p>	252Sqm	1140.00

		<p>200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit ; - 0.35x0.35x0.75m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
9.	C-504	<p>Medium Cost Modified Side ventilation Poly house (As per Approved standard Design & Drawing) G.I. Pipe (A Class) Frame Structure.</p> <p>Dimensions :</p> <p>Length: 24.00 mtr.(Spans at 4.00 m each)</p> <p>Breadth: 21.00 mtr. (Spans at 5.25 m each)</p> <p>Side /Centre height: 2.70/4.50 mtr. (Semi circular type). Gutter height 2.70 m, Ridge height 4.50 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 28no and King Post-14 No : 50 mm dia G.I. Pipe.</p> <p>Semi Circular Left & Right Arc – 28No, Short Main Tie- 14 no. and Ridge Pipe-2no : 40 mm dia G.I. Pipe.</p> <p>Long Main Tie- 5No & Wind Bracing- 8No : 32mm dia G.I. Pipe</p> <p>Pipe along insect net -2No, Right & Left Tie: 28No, Right & Left side inclined strut-28 No. and Central Vertical Posts- 16No.-:25mm dia G.I. Pipe</p> <p>Purlin- 6no,Vent Tie – 14 no. :- 20mm dia G.I. Pipe</p> <p>Rolling up Pipe for shade net -6No & for Handle - 6No:- 15mm dia G.I. Pipe</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p> <p>Shade Net: Removable /Fixed type interior /exterior Shading Net50%shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses</p>	504 Sqm.	990.00

		<p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe ,Size of Pit :- 0.35x0.35x0.75m</p> <p>Processing, fabrication and erection with all fitting and accessories</p>		
10.	C-HT-552	<p>Medium Cost Modified Side ventilation Poly house (As per Approved standard Design & Drawing) G.I. Pipe (A Class) Frame Structure .</p> <p>Dimensions :</p> <p>Length: 28.00 mtr. (Spans at 4.00 m each),</p> <p>Breadth: 20.00 mtr. (Spans at 5.25 m each),</p> <p>Side /Centre height: 4.50/5.00 mtr. (Semi circular type). Gutter height 2.70 m, Ridge height 4.50 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 14no and King Post-14 No : 60 mm dia G.I. Pipe</p> <p>Vertical Column Post: 28no and King Post-14 No : 50 mm dia G.I. Pipe</p> <p>Semi Circular Left & Right Arc – 28No, Short Main Tie- 14 no. and Ridge Pipe-2no : 40 mm dia G.I. Pipe.</p> <p>Long Main Tie- 5No & Wind Bracing- 8No : 32mm dia G.I. Pipe.</p> <p>Pipe along insect net -2No, Right & Left Tie: 28No, Right & Left side inclined strut-28 No. and Central Vertical Posts- 16No.: -25mm dia G.I. Pipe.</p> <p>Purlin- 6no, Vent Tie – 14 no, :- 20mm dia G.I. Pipe.</p> <p>Rolling up Pipe for shade net -6No & for Handle - 6No:- 15mm dia G.I. Pipe.</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p> <p>Shade Net : Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p>	552 Sqm.	1030.00

		<p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit :- 0.35x0.35x0.75m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
11.	C-HT-1008	<p>Medium Cost Modified Side ventilation Poly house (As per Approved standard Design & Drawing) G.I. Pipe (A Class) Frame Structure.</p> <p>Dimensions :</p> <p>Length: 28.00 mtr. (Spans at 4.00 m each),</p> <p>Breadth: 36.00 mtr. (Spans at 5.25 m each),</p> <p>Side /Centre height: 4.50/5.00 mtr. (Semi circular type). Gutter height 2.70 m, Ridge height 4.50 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 48 no : 65 mm dia G.I. Pipe</p> <p>Short Main Tie- 7no : 50 mm dia G.I. Pipe</p> <p>All Semi Circular Arc – 74 No and Ridge Pipe-4no : 40 mm dia G.I. Pipe.</p> <p>Long Main Tie- 12No : 32mm dia G.I. Pipe</p> <p>Pipe along insect net -2No, Right & Left Tie: 28No, Right & Left side inclined strut-56 No. ,Purlin – 8No.:-25mm dia G.I. Pipe.</p> <p>Vent Tie – 28 no, :- 20mm dia G.I. Pipe</p> <p>Rolling up Pipe for shade net -8No & for Handle - 9No:- 15mm dia G.I. Pipe.</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p> <p>Shade Net: Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p>	1008 Sqm.	1000.00

		<p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats). (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit :- 0.35x0.35x0.75m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
12.	D-252	<p>Medium Cost Medium Technology Poly House (As per Approved standard Design & Drawing) G.I. Pipe (A Class) Frame Structure.</p> <p>Dimensions :</p> <p>Length: 24.00 mtr. (Spans at 4.00 m each),</p> <p>Breadth: 10.50 mtr.</p> <p>Side /Centre height: 3.20/4.60 mtr. (Semi circular type). Ridge height 5.60 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 21 no. and King Post- 7No : 50 mm dia G.I. Pipe.</p> <p>Right & Left side Semi Circular Arc – 14 No. , Short Main Tie- 7 No and Ridge Pipe-4no : 40 mm dia G.I. Pipe.</p> <p>Long Main Tie- 3No and Wind Bracing Tie – 8No : 32mm dia G.I. Pipe.</p> <p>Pipe along insect net -2No, Right & Left Vertical Tie: 14 No, Right & Left side inclined strut-14 No:- 25mm dia G.I. Pipe.</p> <p>Purlin-3 No and Vent Tie -7 no, :- 20mm dia G.I. Pipe.</p> <p>Rolling up Pipe for shade net -3No & for Handle - 2No:- 15mm dia G.I. Pipe.</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p>	252Sqm	1140.00

		<p>Shade Net : Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1m x 2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation & C.C. 1:3:6 for encasing column pipe ,Size of Pit ; - 0.35x0.35x0.75m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
13.	D-544	<p>Medium Cost Medium Technology Poly House (As per Approved standard Design & Drawing) G.I. Pipe (A Class) Frame Structure.</p> <p>Dimensions :</p> <p>Length: 28.00 mtr. (Spans at 4.00 m each),</p> <p>Breadth: 20 mtr.</p> <p>Side /Centre height: 4.50/5.00 mtr. (Semi circular type). Ridge height: 6.00 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post- 30No. :- 65 mm dia G.I. Pipe.</p> <p>Short Main Tie- 7 No: 50 mm dia G.I. Pipe.</p> <p>All Semi Circular Arc – 42 No, Long Main Tie- 3 No and Ridge Pipe-2 no : 40 mm dia G.I. Pipe.</p> <p>Vent Tie- 2 No : 32mm dia G.I. Pipe.</p> <p>Pipe along insect net -2No, Right & Left Top Tie: 28 No, Right & Left side inclined strut-14 No. and Purlin – 6 No:-25mm dia G.I. Pipe</p> <p>Rolling up Pipe for shade net -6No & for Handle -10 No:- 15mm dia G.I. Pipe</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p>	544Sqm	1030.00

		<p>Shade Net : Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation & C.C. 1:3:6 for encasing column pipe, Size of Pit :- 0.35x0.35x0.75m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
14.	D-1000	<p>Medium Cost Medium Technology Poly House (As per Approved standard Design & Drawing) G.I. Pipe (A Class) Frame Structure .</p> <p>Dimensions :</p> <p>Length: 28.00 mtr. (Spans at 4.00 m each),</p> <p>Breadth: 36 mtr.</p> <p>Side /Centre height: 4.50/5.00 mtr. (Semi circular type). Ridge height: 6.00 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 48 no : 65 mm dia G.I. Pipe</p> <p>Short Main Tie- 7no : 50 mm dia G.I. Pipe</p> <p>All Semi Circular Arc – 74 No and Ridge Pipe-4no : 40 mm dia G.I. Pipe.</p> <p>Long Main Tie- 12No : 32mm dia G.I. Pipe</p> <p>Pipe along insect net -2No, Right & Left Tie: 28No, Right & Left side inclined strut-56 No. ,Purlin – 8No.-25mm dia G.I. Pipe</p> <p>Vent Tie – 28 no, :- 20mm dia G.I. Pipe</p> <p>Rolling up Pipe for shade net -8No & for Handle - 9No:- 15mm dia G.I. Pipe</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p>	1008 Sq.m.	1010.00

		<p>Shade Net : Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit ; - 0.40x0.40x0.90m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
15.	D-FP-252	<p>Medium Cost Side Ventilation Poly House (With Shade Net), G.I. Pipe (A Class) Frame Structure with Cooling Fan & Pad System (As per Approved standard Design & Drawing).</p> <p>Dimensions :</p> <p>Length: 24.00 mtr. (Spans at 4.00 m each),</p> <p>Breadth: 10.50 mtr.</p> <p>Side /Centre height: 3.20/4.60 mtr. (Semi circular type). Ridge height: 4.60 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post: 21 no and King Post- 7No : 50 mm dia G.I. Pipe.</p> <p>Top Arc – 14 No, Short Main Tie- 7 No,Fan Rafter :2No and Ridge Pipe-1no : 40 mm dia G.I. Pipe.</p> <p>Long Main Tie- 2No and Wind Bracing Tie – 8No : 32mm dia G.I. Pipe.</p> <p>Pipe along insect net -2No, Right & Left Vertical Tie: 14 No, Right & Left side inclined strut-14 No Front & Rear Vertical Post :9No.: -25mm dia G.I. Pipe.</p> <p>Purlin – 3 No:- 20mm dia G.I. Pipe.</p> <p>Rolling up Pipe for shade net -2No & for Handle - 2No:- 15mm dia G.I. Pipe.</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into</p>	252Sqm	1890.00

		<p>Aluminium Profile.</p> <p>Shade Net : Removable /Fixed type interior / exterior Shading Net 50% shading U.V. Stabilized with manually operated mechanism for expanding and retracting.</p> <p>Insect Net 20 to 40mm U.V. Proof on three sides of Poly Houses.</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Platform of Brick Masonry for Cooling Pad of size 20m long and 0.23 m thick in cement mortar 1:4 with both side plastering.</p> <p>Cellulose cooling pad Munters Make of thickness 100 mm and width 32 m height 2 m with Galvanized water collecting gutter 2 mm thick, galvanized profiles to hold cooling pad n side cover 2.2 m length at ends with PVC water distribution system with filter and pump 2 Hp single phase,</p> <p>Exhaust fan made of Galvanized body with louvers Munters make, size 50 inches, 1.5 HP three phase motor, Belt drive, adjustable foundation for motor.</p> <p>Plastic Water Tank 1000 lit for cooling pad recirculation water.</p> <p>Electrical Panel made of MS body duly painted for all sides with Temperature and Humidity sensor, Relay, MCB, Contractor, RYB indicator, switches, volt meter, electrical cable (copper flexible 4 core 1.5 sq. mm) for cooling pad pump and fan motor.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit :- 0.40x0.40x0.90m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
16.	D-FP-560	Medium Cost Side Ventilation Poly House (With Shade Net), G.I. Pipe (A Class) Frame Structure with Cooling Fan & Pad System (As per Approved standard Design & Drawing).	560 Sqm.	1790.00

	<p>Dimensions :</p> <p>Length: 28.00 mtr. (Spans at 4.00 m each)</p> <p>Breadth: 20.00 mtr.</p> <p>Side /Centre height: 3.20/4.60 mtr. (Semi circular type). Ridge height: 4.60 m.</p> <p>Material Of Sub Structure:</p> <p>Vertical Column Post- 36No. :- 65 mm dia G.I. Pipe.</p> <p>Short Main Tie- 8 No: 50 mm dia G.I. Pipe.</p> <p>All Semi Circular Arc – 48 No, Long Main Tie- 6 No, Fan Rafter :8No. : 40 mm dia G.I. Pipe.</p> <p>Pipe along insect net -2No, Right & Left Top Tie: 32 No, Right & Left side inclined strut-32 No. and Purlin – 2 No:-25mm dia G.I. Pipe.</p> <p>Rolling up Pipe for shade net -2No & for Handle -2 No:- 15mm dia G.I. Pipe.</p> <p>Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.</p> <p>Insect Net 20 to 40mm U.V. Proof on three sides of Poly Houses</p> <p>Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing</p> <p>Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32 mm M.S. square pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Platform of Brick Masonry for Cooling Pad of size 20m long and 0.23 m thick in cement mortar 1:4 with both side plastering</p> <p>Cellulose cooling pad Munters Make of thickness 100 mm and width 32 m height 2 m with Galvanized water collecting gutter 2 mm thick, galvanized profiles to hold cooling pad n side cover 2.2 m length at ends with PVC water distribution system with filter and pump 2 Hp single phase,</p> <p>Exhaust fan made of Galvanized body with louvers Munters make, size 50 inches, 1.5 HP three phase motor, Belt drive, adjustable foundation for motor.</p> <p>Plastic Water Tank 1000 lit for cooling pad recirculation water</p>		
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		Electrical Panel made of MS body duly painted for all sides with Temperature and Humidity sensor, Relay, MCB, Contractor, RYB indicator, switches, volt meter, electrical cable (copper flexible 4 core 1.5 sq. mm) for cooling pad pump and fan motor		
		5 cm wide 45cm overall semi-circular plain G.I. sheet gutter 0.80mm thick with iron bracket 40*3 mm size bolts and nuts and washers etc including making necessary connections with rain water pipe complete as per design 0.80mm thick sheet		
		Foundation for Column including earth work in foundation & C.C. 1:3:6 for encasing column pipe ,Size of Pit ; - 0.40x0.40x0.90m		
		Processing, fabrication and erection with all fitting and accessories		
17.	D-FP-1008	Medium Cost Side Ventilation Poly House (With Shade Net), G.I. Pipe (A Class) Frame Structure with Cooling Fan & Pad System (As per Approved standard Design & Drawing)		
		Dimensions :		
		Length: 28.00 mtr. (Spans at 4.00 m each),		
		Breadth: 36.00 mtr.		
		Side /Centre height: 4.50/5.00 mtr. (Semi circular type). Ridge height: 6.00 m.		
		Material Of Sub Structure:		
		Vertical Column Post: 54 no : 65 mm dia G.I. Pipe		
		Short Main Tie- 8 no : 50 mm dia G.I. Pipe		
		All Semi Circular Arc – 80 No, Long Main Tie- 12No, Fan support Tie: 16No. Fan Rafter : 14No. : 40 mm dia G.I. Pipe.		
		Pipe along insect net -2No, Right & Left Tie: 64No, Right & Left side inclined strut-64 No. ,Purlin – 4No.: -25mm dia G.I. Pipe		
		Rolling up Pipe for shade net -2No & for Handle -2 No:- 15mm dia G.I. Pipe		
		Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.		
		Insect Net 20 to 40mm U.V. Proof on three sides of Poly Houses.		
		Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.		
		Door and End Frame: Two number Annex doors (1no. Sliding inside & 1no.fixed with hinges outside) size 1mx2m made from 32mm x 32 mm M.S. square	1008 Sqm.	1740.00

		<p>pipe (duly painted) with poly sheet. End frames fabricated of G.I. Pipes of 25 & 20 mm dia as mentioned in the drawings. All M.S. Parts should have duly painted first red oxide priming coat followed by brush painting (two coats) . (Annex Size: 2 m x 3 m) both Doors are to be installed with annex.</p> <p>Platform of Brick Masonry for Cooling Pad of size 20m long and 0.23 m thick in cement mortar 1:4 with both side plastering.</p> <p>Cellulose cooling pad Munters Make of thickness 100 mm and width 32 m height 2 m with Galvanized water collecting gutter 2 mm thick, galvanized profiles to hold cooling pad n side cover 2.2 m length at ends with PVC water distribution system with filter and pump 2 Hp single phase, plastic water tank 1000 lits.</p> <p>Exhaust fan made of Galvanized body with louvers Munters make, size 50 inches, 1.5 HP three phase motor, Belt drive, adjustable foundation for motor.</p> <p>Plastic Water Tank 1000 lit for cooling pad recirculation water</p> <p>Electrical Panel made of MS body duly painted for all sides with Temperature and Humidity sensor, Relay, MCB, Contractor, RYB indicator, switches, volt meter, electrical cable (copper flexible 4 core 1.5 sq. mm) for cooling pad pump and fan motor.</p> <p>5 cm wide 45cm overall semi-circular plain G.I. sheet gutter 0.80mm thick with iron bracket 40*3 mm size bolts and nuts and washers etc including making necessary connections with rain water pipe complete as per design 0.80mm thick sheet.</p> <p>Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit ; - 0.40x0.40x0.90m.</p> <p>Processing, fabrication and erection with all fitting and accessories.</p>		
18.	Z-40	<p>Medium Cost Side Ventilation Poly House. (Without Shade Net) (As per standard Design & Drawing Approved)with G.I. Pipe (A Class)Frame Structure</p> <p>Dimension</p> <p>Length : 10.00 mtr. (Spans at 1.25m each)</p> <p>Breadth : 4.00 mtr.</p> <p>Side /Centre height : 1.80/4.30 mtr. (Triangular Gable type).</p> <p>Material for Sub Structure:</p> <p>Vertical Column Post- 18 no:- 40 mm dia G.I. Pipe.</p> <p>Horizontal Main Tie short side – 4No and Hor. Main Tie long side – 2No, Rafter – 18No , Ridge- 1No :- 32mm dia G.I. Pipe.</p>	40 Sqm.	2100.00

	Central Vertical Post- 4 No & Tie – 9 No, Purlin – 2 No and Wind Bracing- 4No : 25mm dia G.I. Pipe.		
	Rolling of shade net -2No, Along Insect Net- 2No : 15mm dia G.I. Pipe.		
	Zigzag high carbon steel spring action wire of 2-3 mm diameter must be inserted for fixing shade net into Aluminium Profile.		
	Insect Net 20 to 40mm U.V. Proof on all around the Poly Houses.		
	Covering with suitable U.V. stabilized poly sheet of 200 Micron.(120 GSM), the sheet is to be attached to the structure for quick removal and fixing.		
	Door of size 1m x 2m of M.S. Square Tube 32 x 32 mm.		
	Foundation for Column including earth work in foundation &C.C. 1:3:6 for encasing column pipe, Size of Pit ; - 0.35x0.35x0.75m.		
	Processing, fabrication and erection with all fitting and accessories.	40Sam	

SPECIFICATIONS OF G.I. PIPES.

Pipes Conforming to Indian Standards.

Mild Steel Tubes, Tubulars and Other wrought Steel Fittings – Part –I, MILD STEEL TUBES (from IS – 1239).

**Galvanising :- Galvanises with the Zinc coating conforming to IS Code : 4736.
(Hot Dip zinc coatings on steel tubes).**

The above standard gives due consideration to international standards and has derived the assistance for B.S. – 1387. Steel tubes and tubulars suitable for screwing to B.S. – 21 pipe threads. The scope of this standard covers the requirement for butt welded and seamless, screwed and socketed and plain end mild steel tubes. The pipe under this standard are designated by their nominal bore and are further classified as 'Light', 'Medium', and 'Heavy' depending upon their wall thickness. Ordinarily all the three categories of pipes may be used for conveying gas and water. Only Medium and Heavy pipes are recommended for carrying steam. Sockets of these tubes are designated by respective nominal bore of the pipe.

Manufacturing Process: Tubes are made from tested quality of steel manufactured by any approved process (a) Hot Finished Seamless (HFS), (b) Electric Resistance Welded (ERW), (c) High Frequency Induction Welded (HFIW), and (d) Hot Finished Welded (HFW).

Tubes manufactured by manual welding are covered by this standard.

Light, Medium and Heavy tubes and all sockets shall be either welded or seamless. Medium and heavy tubes shall be manufactured from mild steel by the open hearth, electric or basic oxygen process.

All electric welded tubes and sockets (Medium and Heavy) class shall be normalized.

Tensile Strength: The tensile strength of strips cut from selected tubes shall be at least 320 MPa.

Chemical Composition: The ladle analysis of steel for tubes and sockets used for steam services shall not show sulphur and phosphorus in amount exceeding 0.050 percent each. When pipes are used for water and gas purposes these contents shall not exceed 0.060 percent each.

Tolerance: The manufacturing tolerance to the following extent is permissible on pipes and sockets:

Butt Welded: Light tubes – 8 percent + not limited.

Medium and Heavy tubes: - 10 percent + not limited.

Seamless tubes: - 12.5 percent + not limited.

Weights:

Single tube Light -- 8 percent + 10 percent.

Single tube Medium and Heavy -- 8 percent + 10 percent.

Form quantities per Load of 10 tonnes Min. (Light Series) \pm 5 percent.

The quantity per load of 10 tonnes Min. (Medium & Heavy series) \pm 7.5 percent.

Note: For the purpose of minimum weightment of 10 tonnes lot, the weightment may be done in convenient lots at the option of the manufacturer.

TABLE 87 Dimension and Nominal Weights of Black steel Tubes (LIGHT) IS – 1239.

N.B.	O.D.		Thickness	Weight of Black Tube		Calculated nominal wt. of Galvanised Tubes.	
	Max	Min		Plain end	Screwed and Socketed	Plain end	Screwed and Socketed
mm	mm	mm	mm	Kg/m	Kg/m	Kg/m	Kg/m
15	21.4	21.0	2.00	0.952	0.961	1.02	1.03
20	26.9	26.4	2.35	1.41	1.42	1.49	1.50
25	33.8	33.2	2.65	2.01	2.03	2.11	2.13
32	42.5	41.9	2.65	2.58	2.61	2.71	2.74
40	48.4	47.0	2.90	3.25	3.29	3.39	3.43
50	60.2	59.6	2.90	4.11	4.18	4.29	4.36
65	76.0	75.2	3.25	5.80	5.90	6.04	6.11
80	88.7	87.9	3.25	6.81	6.98	7.06	7.29
100	113.90	113.0	3.65	9.89	10.20	10.21	10.51

List of Standard Pipe Manufacturers

1. Tata Structures,
2. Jindal Pipes Ltd., Mumbai
3. Asian Tubes Ltd., Gujarat
4. Swastik Pipes Ltd., Ahmedabad
5. Bhusan Power & Steel Ltd., UP.
6. APL Apollo Tubes, Gujarat
7. JTL Infra Ltd., Delhi
8. GI Pipes India Ltd., UP.

Annexure- IV

LIST OF COMPONENT, INDIAN STANDARDS AND INDICATIVE SUPPLIER OF MATERIAL

Specifications for Providing Cladding Materials

Sr. No.	Component	Minimum Standard / specification to be followed	Recommended Brand of Material
1	<p>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.</p>	IS 15827:2009	1. Ginegar, Israel 2. Politive. 3. Agripolyane, France 4. Plastica Kritis , 5. Hyplast, Belgium 6. Essen Multipack Ltd, Rajkot
2.	Supply of U.V. Stabilized multilayered x- laminated sheet 200 GSM (For Pond Lining)	IS 14611:1998	To be sourced from Agencies empanelled with Department of Agriculture, Himachal Pradesh .
<p>Note: Foreign companies such as Gineagar, Polysack, AgriPolyane etc. are represented by its dealer in the country. For Polythene, majority of the companies are manufacturing the goods as specified in the IS standard, it is learnt that few manufacturers have started process for getting IS standard for their products. Polythene should be of minimum three layer film suitable to the climate of Himachal Pradesh. Latest Test Certificate from CIPET is to be submitted.</p>			

3.	Shade Net	IS 16008: 2012	Refer Note at below																					
	<p>Note:- For Shade Net, majority of the companies are manufacturing the goods as specified in the IS standard, it is learnt that few manufacturers have started process for getting IS standard for their products. At present following Indian companies are having good presence in Domestic market CTM Agrotech, Rishi Tectex, TuflexIndia, Neocorp International Ltd., Essen Multipack Ltd., Satva Agrishade Net, Kasturi Agro Net, Kwality Nets, Agro net, etc. There are few Importers /Traders who are supplying Shade net/Agri net/Insect net of International Standard in India. The foreign companies such as Polysack, Growell, Meteor Agriculture Nets, etc. are represented by its dealers in the country.</p>																							
4.	Insect Net																							
	Insect Net Specifications																							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Mesh</th> <th style="width: 20%;">GSM</th> <th style="width: 20%;">Yarn Diameter</th> <th style="width: 20%;">Knitting Grid</th> <th style="width: 20%;">U.V. Life</th> </tr> </thead> <tbody> <tr> <td>50 Mesh</td> <td>130</td> <td>0.24mm</td> <td>50x24</td> <td>5Yrs.</td> </tr> <tr> <td>40Mesh</td> <td>120</td> <td>0.24mm</td> <td>40x24</td> <td>5Yrs.</td> </tr> <tr> <td>25Mesh</td> <td>130</td> <td>0.28mm</td> <td>25x24</td> <td>5Yrs</td> </tr> </tbody> </table>				Mesh	GSM	Yarn Diameter	Knitting Grid	U.V. Life	50 Mesh	130	0.24mm	50x24	5Yrs.	40Mesh	120	0.24mm	40x24	5Yrs.	25Mesh	130	0.28mm	25x24	5Yrs
Mesh	GSM	Yarn Diameter	Knitting Grid	U.V. Life																				
50 Mesh	130	0.24mm	50x24	5Yrs.																				
40Mesh	120	0.24mm	40x24	5Yrs.																				
25Mesh	130	0.28mm	25x24	5Yrs																				
	<ul style="list-style-type: none"> • Variance (+-) range of 3 to 5% in above specs. • Use of Air Circulating Fans is mandatory with 50Mesh Insect Net. 																							
5.	Fixtures																							
(I)	Nuts, Bolts & Washer	Galvanised- 120 GSM	Company manufacturing bolts, nuts and washer as per the IS standard																					
(II)	Clamps	As per the prescribed guideline and the clamps to be used should be galvanised	GI sheet to be used for clamps should be made from IS standard material to be sourced from: 1. TATA Shaktee, 2. JSW Steel 3. SAIL 4. Asian Tubes Ltd, 5. Bhushan Steel																					
(III)	Brackets & cleats	As per the prescribed guideline for design																						
6.	Foundation	As per the prescribed guideline for design	Cement to be sourced from: 1. Ambuja Cements Ltd. 2. ACC, Cement Ltd. 3. Ultratech Cement Ltd. 4. J K Lakshmi, 5. Binani Cement Ltd. 7. Birla Corporation 8. JK cement 9. JP cement etc.																					

Annexure- IV (a)

**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 Sqm.	Rate / Sqm. (Rs.)	Unit Rate (Rs.)
1.	Drip +Fogger System	SPECIFICATIONS FOR DRIP + FOGGERS :- Indicative requirement of drip + fogger system components will consist of PVC/ HDPE pipes of suitable dia & pressure rating, Air release valve 1", Laterals 16mm LLDPE, Drip lines Integral or inbuilt 16mm x 20cm 1.3lph 0.9mm thick, PP flow control valve 16mm, PP control valve (Ball) of suitable size, Disc filters 130 micron , Media /Sand filter with back flush assembly 10 ³ /hr, By pass assembly 1" x 1", 2"x 1.5" or 1.5" x1.5" , Ventury ¾ " with flow meter and flow regulator, Fogger (with cross and anti drains valve at spacing of 2 x 2meter with discharge of 28 LPH at 35m) , pressure gauge (Glycerin filled) , misc. fittings and accessories. etc.	40	240.00	9,600.00
2.		Drip fogger system for 40 Sq m covered area consisting of 1 x 1" disc filter, 2 x 32mm control valves, 15m x 32mm x 6kgf/cm2 HDPE/PVC pipe, 30m x 16mm lateral, 65m x 16mm integral drip line, 2 x flush valves, 8 x 16mm lateral valves, 10 no. foggers on four way with LPD complete with related fittings.	100	160.00	16,000.00
3.		Drip fogger system for 250 Sq m. covered area consisting of 1 x 1.25" disc filter, 1 x ¾" venturi unit with control valve, 1 x pressure gauge, 1 x 1" Air release valve, 2 x 40mm control valves, 20m x 40mm 4kgf/cm2 HDPE/40mm PVC pipe 6 kgf/cm2, 60m x 16mm lateral, 160m x 16mm integral drip line, 2 x flush valves 40mm, 8 x 16mm lateral valves, 25 no. foggers on four way with LPD, control head, etc. complete with related fittings.	250	120.00	30,000.00

4.	Drip fogger system for 504 Sq m covered area consisting of 1 x 1.25" disc filter, 1 x ¾" venturi unit with control valve, 1 x pressure gauge, 1 x 1" Air release valve, 4 x 40mm control valves, 60m x 40mm 4kgf/cm2 HDPE/40mm PVC pipe 6 kgf/cm2, 200m x 16mm lateral, 800m x 16mm integral drip line, 4 x flush valves 40mm, 32 x 16mm lateral valves, 126 no. foggers on four way with LPD, control head, etc. complete with related fittings.	504	120.00	60,400.00
5.	Drip fogger system for 544 Sq m covered area consisting of 1 x 1.25" disc filter, 1 x ¾" venturi unit with control valve, 1 x pressure gauge, 1 x 1" Air release valve, 4 x 40mm control valves, 60m x 40mm 4kgf/cm2 HDPE/40mm PVC pipe 6 kgf/cm2, 200m x 16mm lateral, 800m x 16mm integral drip line, 4 x flush valves 40mm, 32 x 16mm lateral valves, 136no. foggers on four way with LPD, control head, etc. complete with related fittings.	544	120.00	65,280.00
6.	Drip fogger system for 1008 Sq m covered area consisting of 1 x 1.5" disc filter, 1 x ¾" venturi unit with control valve, 1 x pressure gauge, 1 x 1" Air release valve, 2 x 50mm control valves, 60m x 50mm 4kgf/cm2 HDPE/50mm PVC pipe 6 kgf/cm2, 225m x 16mm lateral, 800m x 16mm integral drip line, 2 x flush valves 50mm, 32 x 16mm lateral valves, 252 no. foggers on four way with LPD, control head, etc. complete with related fittings.	1008	120.00	1,20,960.00

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. 5074/- only.

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

(On judicial paper to be attested by Notary)

This agreement made thisday ofbetween Shri / Smt.R/o(hereinafter called the farmer of the first party) 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.

The Parties hereby agreed to undertake the following:

1. The farmer or first party will provide his own legally occupied and undisputed land for the construction of poly houses and no part of poly houses will be constructed on unauthorized/disputed land. If any portion of the land where poly house found to be constructed on other than individual land then the first party will be responsible for this.
2. The farmers or first party will provide well leveled land to the firm / company for the construction of poly house and also provide water source for the installation and operationalization of micro irrigation system preferably within 20 meter radius of the constructed poly house. The first party will bear the head load carriage from Katchha / pucca road head to the actual site of poly house.
3. The first party will select the model and design of poly house of his choice from the approved models and designs and will provide cheque /draft to the SMS (Agri.) equal to 15 % of the cost as beneficiary share at the time of signing of agreement which will be passed on to the service provider after the material is dumped at site and work started.
4. The first party will get the infrastructure installed from second party of total cost of construction of poly house / poly houses and MI system or any one component as per status of empanelment of the company in accordance with the approved model, design, specification and rate.
5. The farmer or first party has voluntarily opted the second party (i.e. empanelled firm) for the construction of poly house. If any dispute arises for the non execution or delay in construction of poly house work then the dispute will be resolved between the first and second party themselves.
6. The second party empanelled by the Department will arrange specified construction material and will execute the work to the best satisfaction of first party within 90 days from the date of signing of the agreement.
7. The second party will get the construction material inspected by the PIA or his authorized representative.

8. As provided in the clause (7) of the Arbitration and Reconciliation Act 1966, both parties agreed to resolve the dispute which may arise between the beneficiary and the service provider, through the Arbitrator to be appointed by the Government.
9. In case of default/deviation from the agreed terms and conditions, the parties concerned will be liable for the following:
 - a) Loss accrued to the first party by non construction of Poly house structure/ installation of Micro- irrigation system within specified time, second party will be liable to refund the entire beneficiary share with 20% interest from the date of deposit of this amount. In case there is any construction defect or non specified construction material is used, then second party would remove the defect and replace the material at his own cost within 30 days after pointing out the defects.
 - b) First party shall have to sign an agreement with the service provider of his choice within 15 days from the receipt of sanction from DNO.
 - c) The execution of civil works will be decided mutually by both the parties.

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

Signature

Farmer (First Party)

Witness

1..... (PIA or his representative)

2.....(Local Person)

Company (Service provider)
(2nd Party)

Annexure-VI

Performa for maintaining beneficiary wise record under Dr. Y. S. Parmar Kisan Swarozgar Yojna (A separate page in register is to be allocated for each farmer/ beneficiary on financial year basis)

Sr. No.	Particulars of Farmer/ Beneficiary	
1.	Name of the farmer with complete address and telephone number.	
2.	Date of Receipt of Application	
3.	Date of field verification	
4.	Date of Administrative Approval	
5.	Date of issue of authorization letter	
6.	Date of Receipt of Bills	
7.	Date of Disbursement	
8.	Date of submission of P.C.R.	
9.	Area under Project Proposal	
i)	Poly house model with area coverage	
ii)	M.I. Systems	Area Cost Assistance 85% under the system
	i) Type of M.I. System and Area under covered conditions.	
	ii) Name of the Company executing the component.	
iii)	Water Source Augmentation	
	Small and Medium lifts/Pumping units specify (HP, Head , Discharge)	Cost Assistance 50%
10.	Total cost of the scheme components	
11.	Total assistance to the beneficiary (i + ii+ iii)	
12.	Any other detail	

Annexure-VII

To

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

Subject : **Authorization for construction of Poly-House/ installation of Micro Irrigation system/creation of water source under Dr. Y.S. Parmar Kisan Swarozgar Yojna.**

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 (_____ Sqm..) 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 covered area (_____ Sqm..) 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 small and medium lift / pumping unit having capacity _____ LPS with an estimated cost of Rs. _____ (Rupees _____) only as per estimated cost prepared and submitted by PIA after spot inspection.

In case assistance is not availed for water source required at site, farmer shall have to develop that at his own cost or by availing assistance from other schemes.

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

1. Eligibility of assistance for (1) and (2) components as above would be **85%** of approved cost for all models subject to the maximum ceiling and for small and medium lifts / pumping component, it would be **50%** of actual cost subject to the maximum permissible ceiling and actual evaluation and measurement done by the PIA or his authorized representative.

2. For any deviation from the given / approved specifications with regard to construction material and design etc., you will be responsible for the same and in such case, you have to forfeit assistance available under the scheme.
3. **10% variation** in the sanctioned covered area of polyhouse is allowed depending upon the site for which revised sanction is not required. In case, likely deviation is more than 10%, then revised sanction be obtained before starting the construction work from DNO through PIA.
4. Before undertaking construction work, you have to submit an affidavit on the prescribed form at **Annexure IV**.
5. Before assigning work to the empanelled company/service provider of your choice, you will sign an agreement with the company/service provider and will comply with the agreed terms and conditions.
6. You will have to provide well leveled field /site for construction of Poly House and related infra-structure at your own cost.
7. You will have to carry the material at your own cost from motorable pucca / katchha road head to the actual site.
8. You will have to deposit **15%** of the beneficiary share with the Block SMS (Agri.) in the shape of bank draft prepared in favour of service provider at the time of signing of agreement for onward transfer to the service provider.
9. You will have to make arrangement for electricity and water at the site.
10. You will have to make payments to the companies for optional and additional items, if any desired by you.
11. **You have to sign agreement with empanelled service provider of your choice within 15 days and to start construction work within 30 days, failing which the authorization letter issued shall stands cancelled.**

District Nodal Officer-cum-
Deputy Director of Agriculture,
-----Distt.-----H.P.

Copy forwarded to:

1. The PIA cum SMS (Agri.) Development Block _____ Distt. _____ H.P.
2. The Company /Service Provider selected by the farmer to execute project component / components.
3. The Manager, _____ Branch _____
P.O. _____ Tehsil _____ Distt. _____ H.P.
4. District Lead Bank Manager _____ Distt. _____ H.P. for information and necessary action at his end please.

District Nodal Officer-cum-
Deputy Director of Agriculture,
-----Distt.-----H.P.

Annexure-VIII

Terms and conditions to be followed / observed by the companies short listed on the basis of previous performance and technical bids for new firms to act as Service Providers for the constructions of Poly Houses and Installation of micro irrigation systems i.e. Part-A and Part-B under Dr. Y. S. Parmar Kisan Swarozgar Yojna.

1. That the company will execute Part-A (Construction of Polyhouses) or Part-B (Installation of Micro-irrigation) or Part-A+ Part-B of the project as per approved designs for different models of Poly-houses, Micro-Irrigation systems and specifications prescribed for construction material on the rates approved by the Govt.
2. The approved rates shall be applicable for project period and cost escalation shall be decided on year to year basis. Copy of approved designs of different models and sizes alongwith specifications of construction material and approved rates per sqm. are enclosed as per **Annexure 'IV'**. Approved rates per sqm. for installation of Micro-Irrigation Systems inside Poly houses are enclosed as per **Annexure-IV(a)**.
3. The approved rates are inclusive of all taxes.
4. The approved rates are for planning, designing alongwith providing, fixing and installation of micro-irrigation systems inside the polyhouse, as per project targets.
5. The company will provide after sale service facilities at focal points in all the districts where they are working. The department will not ensure any work volume to the company. However, in view of spirit of the project, the project benefits must flow to the farming community evenly throughout the State. To ensure this, department can fix minimum targets to the company with respect to hard areas including backward Panchayats and tribal pockets.
6. The company will have to exhibit counter samples of essential components in the office outlets in each districts / focal points so that DNO's/PIA's/farmers can verify the quality of components to be used for installation of the systems or used in the installed infra-structure.
7. The empanelment fee of Rs.25000/- for each component i.e. Part A for installation of Poly -house or Part -B for installation of MI systems inside poly houses and Rs. 50000/- for installation of both components (Part A+ Part B) non refundable is required to be deposited before empanelment of the companies and the same shall be used by the department for training, exposure and promotion of precision farming practices and for transfer of relevant technological interventions.
8. The company shall have to complete the construction of poly house structures in all respects within 90 days from the day when agreement is signed with the farmer. For the installation of MI system inside the poly house, the time limit is 30 days from the date of completion of poly house structure in all respects.

The agreement for the installation of MI system would be signed simultaneously i.e. for Part-A and Part-B. It is mandatory that farmers will deposit his contribution i.e. 15% at the time of signing of agreement for both the components through S.M.S.(Agri.) of concerned block. For delay in construction, the company would be liable to refund the entire amount taken from the farmer with 20% interest per annum and the interest shall be charged from the date of signing of the agreement.

9. The company will bear the carriage charges upto road head pucca and kachha as the rates approved are inclusive of these charges. However, any head load beyond road head shall be borne by the beneficiaries.
10. Fan Pad System has been provided for some model of poly house. However, it is open to the beneficiaries to install the other additional facilities like light arrangements, temperature and humidity recording devices by the beneficiary at his own expenses. All other optional items mentioned in the drawing of models can be installed for which the expenditure is to be borne by the farmer or as per mutual agreement of farmer with service provider.
11. The cost of pumping unit has not been included in the rates approved for the installation of micro irrigation system. Therefore, the cost of pumping units shall be borne by the beneficiaries.
12. The constructed poly house structure and installed micro irrigation system will be inspected by the designated officers of the department or by the third party as the case may be for different parameters like quality, workability and sustainability.
13. The companies are not only required to install infrastructure in a time bound manner but it has to be workable, smooth and safe for UV film and construction should be to the best satisfaction of beneficiary / PIA. **The service provider shall also submit the copy of test report of UV film by the duly approved agency by the Govt. of H.P. / GoI.**
14. Project assistance would be released to the company through beneficiary after completion and satisfactory joint inspection conducted by the Department and the bankers in case bank loan is availed. The bank draft shall be handed over to the company through the farmer after full satisfaction. The payment can be released after the completion of even single component i.e. poly house.
15. Before actual execution, the company and the beneficiary shall have to sign a legally valid contract as per agreement form **Annexure-V** of the operational guidelines.
16. No billing is allowed from outside the state in any case, so the companies will have to obtain the necessary TIN No. **within 15 days from the date of empanelment.**

17. The company is being empanelled provisionally and decision for regular empanelment will be taken after three months from this date on the basis of their performance in the field. In the event of non fulfillment of agreed terms and conditions, the company is liable to be de-empanelled for future works under the project.
18. The polyhouse / MIS construction / installation by the service provider will be under warrantee for Two Years as for as construction defect and quality of material i.e. UV Sheet, GI Pipe, Dripper and Fogger are concerned, however, damages due to calamity, storm, high wind, wild animals, fire, landslides etc. shall not be covered under warrantee and farmers should have to bear such damages at his own level.
19. Any departure from the agreed terms and conditions enlisted above from 1 to 18 shall tantamount to recovery of the amount equal to default with interest and the same can be charged from the bank guarantee of Rs.5 lakh (Rs. five lakh) only or any amount due for payment. For repeated violation of agreed terms and conditions, the company would be liable for de-empanelment or black listed as the case may be.

The operational guidelines of the scheme are available on the website of the

Department of Agriculture i.e. www.hpagriculture.com.