



GOVERNMENT OF HIMACHAL PRADESH

DEPARTMENT OF AGRICULTURE

STANDARD OPERATIONAL GUIDELINES

FOR

IMPLEMENTATION

OF

MUKHYA MANTRI KHET SANRAKSHAN YOJNA

IN

HIMACHAL PRADESH

(2018-19)

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Operational Guidelines for Implementation of Mukhya Mantri Khet Sanrakshan Yojna (2018-19)

1) Introduction :-

Farmers are always exposed to various external risks like weather dependence, market prices, inputs availability etc. Another potent risk for farming is damage to crops by stray/ wild animals. For Himachal Pradesh more than wild animals, the farmers are exposed to risk of crop damage from monkeys. It is estimated by the department of Agriculture and department of Horticulture Government of Himachal Pradesh that an area of 1.56 lakh ha. is affected by monkey and wild life menace which annually causes loss of Rs.229.00crores to the farmers. The extent of loss is up to 89% of the normal yield of crops in some cases. A study conducted by an NGO, Gyan Vigyan Samiti, found that the wild animal menace causes loss of Rs.400 crore to Rs.500 crore every year in the State. Loss in employment/livelihood is over and above these estimated losses. According to a census conducted in 2004 ,the population of monkeys in the state was 3,17,112 but the figure dropped to 226,086 in the last census held in 2012. To protect crops from monkeys', state government has devised various strategies like sterilizing the simians to resolve the problem, however, the problem still persists and needs alternative methods to protect the crops damages. Present practice of crop protection by manual guarding does not ensure 100 percent crop protection .

While number of alternatives are practiced by farmers and government to protect the crops from damage by monkeys and wild animals, none of these assure 100% success in crop protection. In this project proposals, Department has taken up Solar Powered Electric Fencing . A new technique of power fencing is seen as ultimate solution. The solar powered fence electrifies the fence with pulsating current and these pulses are the “shock” felt by an animal that touches an electrified fence. Unlike a conventional fence, an electric fence is a psychological barrier such that animals learn to respect the fence. Any periphery can be solar fenced, though the cost differs with respect to the area to be fenced. An **electric fence** is a barrier that uses electric shocks to deter animals or people from crossing a boundary. The voltage of the shock may have effects ranging from discomfort to death. Most electric fences are used today for agricultural fencing and other forms of animal control, although they are frequently used to enhance the security of sensitive areas, such as military installations, prisons, and other security sensitive places; places exist where lethal voltages are used.

In the Budget Speech , Chief Minister has announced to continue the existing scheme i.e. **Mukhya Mantri Khet Sanrakshan Yojna** during the year 2018-19 with an outlay of Rs. 35.00crore. Under this schme ,farmers will be provided 80% financial assistance for individual farmers and 85% financial assistance for a group of three or more farmers for installtion of Solar Electric fencing around the farm. The fence will be energized with the help of solar power. Current in the fence around the farms will be sufficient to keep away the stray animals , wild animals and monkeys from the farms.

2) Rationale of Project.

2.1) Animal Control

- Keep domestic animals in.
- Keep wild animals and vermin out.

- Separate different groups of animals.
- Allow rationing of crops and pastures.
- Fence off eroding areas, trees, rivers and roads.

2.2) Benefits of Power Fencing

- Affordable.
- Easily constructed and maintained.
- Light weight and easily transported.
- Durable because of low physical contact.
- Easily modified.
- Less animal hide and pelt damage.
- Deterrent to trespassers and predators.

3) Project Components :-

There are three types of electric fences: Electric grid powered, Battery powered and Solar powered . Each relies on a component known as an electric fence charger to convert the incoming charge into a safer form of electricity. In view of demand of farmers and previous experiences , the Department has decided to undertake only Solar Electric Powered Fencing which consist of an Energizer, solar panel, battery, fence monitoring equipment, insulation material, poles (at an average distance of 5 mts from each other and of 1.5 m to 2.10 m height above ground level) and 5 to 11 lines of horizontal wire or more on the demand of farmers. In that case, the expenditure of pole more than 2.60 meter height will be born by the beneficiaries itself. The poles may be of MS Hot Dip galvanized type , RCC or/Wooden .

The electrical impulse is generated by an energizer. The energizer produces high voltage impulses of approximately 8 kv once in every 0.9 to 1.2 seconds. The impulse lasts for approximately 300 millionths of a second to 0.1 second and has a current of up to 10 mA. The current supply is generally available from 12 V battery charged either by solar power or from a general electric supply system. Hence, the shock is completely safe.

4) Project Areas, Beneficiaries and Criteria for Selection:-

- 1) Project shall be implemented in all the districts of the State as per demand and need of farming community .
- 2) Farmers should have cultivated land as per revenue record in the state and have a compact piece of land.
- 3) The financial assistance to the tune of 80% shall be provided to the individual farmers and 85% to a group of three or more farmers .
- 4) All the farmers are eligible for availing assistance in their own farm land who intends to install Solar Electric Fencing systems on their farm land .
- 5) Preference for availing assistance would be given to the farmers whose livelihood source is Agriculture & Horticulture sector only.
- 6) Preference shall be given to community farming system and preferential areas would be those where cultivated land is in one compact patch in order to avoid legal complications.

5) Application Form:

Farmers willing to install Solar Electric Powered fencing systems for availing project assistance shall submit an application along with supporting revenue papers with the concerned Deputy Director of Agriculture, who is the project sanctioning authority through Project Implementing Agency (PIA) in the development block i.e. Subject Matter Specialist on prescribed application form both for individual & a group of Farmers (**Annexure-I& II**). Farmers shall have to submit an undertaking in the shape of self attested affidavit on judicial paper with regard to maintain the fence regularly and declare that I/We shall be solely responsible for any death or damage to humans, animals or property due to mismanagement of the solar power fencing for solar electric powered fencing (**Annexure-IV**).

The prescribed application forms shall be made available in all the offices of the Department at District, Block level and Circle level. Farmers can submit applications to the Agriculture Extension Officer of the area, Agriculture Development Officer, Subject Matter Specialist at the Block level.

6) Project Implementation:

The programme will be implemented by the Deputy Directors of 10 districts through Project Implementing Agency (PIA) in the development block i.e. Subject Matter Specialist. In Tribal districts, the District Agriculture Officer, Keylong & Assistant Project Officer, Kaza of Lahaul & Spiti District, District Agriculture Officer, Reckongpeo, District Kinnaur, Subject Matter Specialist Pangi and Bharmour of District Chamba in their respective areas/ districts will act as Project Sanctioning Authority as well as Project Implementation Agencies (PIA,s). The PIAs shall be responsible for identification and selection of the potential beneficiaries.

6.1) Implementation Process:- Department shall implement this programme through empanelled companies /firms / authorised dealers who are already engaged in this profession and having a sufficient experience on the approved rates per component to be used in Solar Powered Electric Fencing finalized by the Committee constituted at Directorate level. The list of empanelled companies/ firms is enclosed at **Annexure-X**.

The empanelled companies /firms/ authorized dealers shall be responsible for selection of feasible site and shall prepare the cost estimate of every field on the basis of item wise rates finalized by department with the consultation of farmers and Department and got it approved from District Nodal Officer (DNO) before awarding the work to companies and execution of work.

6.2) 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) notified by the Deputy Director of Agriculture of concerned district. 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. with date of receipt shall be written on that application.
2. The empanelled firms/ companies will prepare the detailed cost estimate as per prevailing site need and requirements and will submit to SMS of concerned block for verification.

3. The SMS 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. The selection of models such as 5,7,9,11 or more wires fencing may be decided in consultation with the Service provider and farmers concerned. In case, some site development is required, then the farmers will be guided accordingly and the farmer is required to provide weed & tree free & leveled field site for the installation of electric fencing to the empanelled company at the time of signing of agreement wherever levelling is required.
4. The SMS and his core team will recommend / reject the application after inspection of site. In case the site is found suitable, the PIA will record details as per **Annexure -III** columns and will forward the same to the Project Sanctioning Authority (DNO) for administrative approval along with detailed cost estimate of Solar Electric Powered Fencing as the case may be **within 10 days** after inspection.
5. 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 installation of Solar Powered Electric Fencing .
 - Test check and completion report within 10 days after the commissioning of systems.
 - Submission of all bill vouchers within 5 days after completion report to the DNO. The PIA will submit the bill of Fencing work .
6. If the farmers want to avail the loan facility to meet out the expenditure on account of farmer's share, necessary facilitation shall be provided by the PIA for formulation of project report for bank finance.
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 fencing systems with farmers, bankers as the case may be to the Project Sanctioning Authority i.e. DNO. The project assistance to be recommended on the actual cost basis. The project assistance be worked out in accordance with approved cost norms. The component wise approved rates along with ISI Specifications for Solar Powered Electric Fencing along with terms and conditions agreed upon by the firms are attached as per **Annexure-VIII & Annexure-IX**. **The payments to the concerned service providers shall be made on actual measurement basis as per prevailing site need and requirement duly verified by the Core Team concerned . The final bill may be prepared as per Bill of Quantity for calculation of subsidy in enclosed at Annexure-XI.**
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 availed.

10. Submission of progress reports to the District Nodal Officer every month on prescribed format **as per Annexure-XI&XII**.
11. Facilitation for signing of the agreement as per **Annexure-V** between the farmer and service provider (firm/company) for installation of Solar Electric Powered Fencing. He will sign the agreement along with one local person as witnesses.
12. PIA will have to maintain beneficiary- wise record as per **Performa-VI**.

6.3) Role and Responsibility of District Nodal Officer:-

For smooth and effective implementation of project, Deputy Director of 10 Districts and District Agriculture Officer of Lahaul & Spiti and Kinnaur and APO, Kaza and SMS Pangi & Bharmour will be Nodal Officers for the Districts/ITDP Blocks respectively. DDA's assisted by a core team comprising of Districts 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 identify and delineate areas in district of those areas which are prone and vulnerable to crop loss by stray & wild animals and monkey menace. The farmers in these areas are abandoning of agriculture and migration for their livelihood to other sectors, so the priority to the farmers of these areas for availing project assistance, so that they can be rehabilitated in farming sector.
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 block level officers, D.E. 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 relevant year. The expenditure for organizing one day meeting –cum-workshop may be met out from the schemes budget. 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 proceeding of workshop / meeting be sent to the Directorate immediately.
3. Will organize awareness campaign at focal points and educate farmers about the project details. During the awareness campaign, the willing farmers be provided the prescribed application forms and necessary guidance as to how they can avail project assistance.
4. The Empanelled companies in consultation with DNO,s shall provide one day training either in their office campus or at site where system has already been installed to both the members of Core Team and Users regarding use of Solar fencing, their pros & cons and operation & maintenance of system.
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 material specifications to be used in fencing work & 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 for the installation of Solar Electric Powered Fencing as per recommendation of PIA on the

prescribed authorization letter given at **Annexure-VI**. 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 will exercise at least 5% test check of the total systems installed in their respective districts .
9. (a) PIA /DNO will point out shortcomings / defects if any in one go after proper inspection, putting objection 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 directly through RTGS only after obtaining satisfaction and completion report from farmers / PIA on the performa attached at **Annexure-XII**. DNO will ensure that the payment 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 maintain beneficiary-wise record on **Performa "VII"** and will put the same on departmental web site.
12. The DNO will ensure the display of sign board by giving full details of beneficiaries, infra structure developed, assistance released etc.
13. The DNO will purchase the materials such as vernier calliper other material required for maintaining quality control out of the contingency @1.5% and will provide to all PIA,s to maintain the.

7.General

Participatory and pragmatic approach with complete transparency would determine the success of the project. Technical knowhow on all the aspects of solar powered systems will be

provided to the farmers so that they can utilize the durable assets created with project assistance in an efficient manner. It will be the responsibility of DNO and PIA to create such awareness amongst farmers.

7.1 Project Assistance : Project assistance @ 80% is available for individual farmers and 85% for a group of three or more farmers for Installation & Commissioning of Solar Electric Powered Fencing Systems in the Farmer's Fields on the actual work done by the Firm/ Company. Project assistance shall be released to the beneficiaries directly or through bank ,in case the farmer avail loan. The assistance for the installation of Solar Electric Powered Fencing can be released to the company after obtaining satisfactory report from core team and farmers / a group of farmers as per **Annexure-XII**. The payments shall be worked out on actual work done and its measurement basis in view of prevailing site need and requirement duly verified by the Core Team concerned.

8. Monitoring and Evaluation:

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

- a) State level project implementation unit, D.N.O. and PIA.
 - 1) Core team will carry out 100% physical verification of Fencing Systems installed under the scheme.
 - 2) PIA will carry out 20% of the total no. of Fence systems installed in their respective blocks
 - 3) Deputy Director of Agriculture cum DNO will carry out 5% of the fence systems installed in districts.
 - 4) Random physical verification in each district will be carried out by HQ officers at least 2% out of total fence systems installed.
- b) By an independent agency having sufficient experience and knowledge of the project if required.
- c) The PIA will ensure submission of detailed Monthly & Quarterly Progress Report (MPR & QPR) by 5th of every month/ quarter on the prescribed format annexed at **Annexure-XIII & XIV**. Similarly, detailed Annual Progress Report (APR) should be sent within three months after closure of financial year.

9. Facilitation to the farmers:

- a) Models estimates of Solar Powered Electric Systems have been prepared and are available with DNO,s, PIA,s and other sub offices of the department i.e. at district level and block level.
- b) For the installation of Solar Powered Electric Systems specifications and rates of Solar Powered Electric Fencing have been prepared and finalized for their guidance.
- c) For surveying, designing, supplying , installation and commissioning of Solar /Electric Fencing System in the farmers fields under Mukhya Mantri

Khet Sanrakshan Yojna , experienced companies have been registered and authorized to act as service provider to them.

- d) Training regarding operation and maintenance shall be given free of cost to the farmers by Empanelled companies .
- e) Farmers are at liberty to execute the project component at their own. For guidance of the farmers, detailed estimates have been prepared and specifications of construction material have also been approved.
- f) For availing bank loan, facilitation shall be provided by the Department for preparation of bank loan cases.
- g) Research and development support shall be provided by the Universities during the project implementation and post project period.
- h) All prescribed forms required by the farmers i.e. application form, agreement form etc shall be provided to farmers free of cost.
- i) The DNO's & PIA's will motivate and facilitate the farmers for entering into Annual Maintenance Contract with the company concerned , if they want.

10. Expected Outcome:

- 1) Increase in yield of crop production by approximately 25% higher due to protection of crops from wild / stray animals.
- 2) 50% relief in drudgery of guarding the fields during nights over the whole season.
- 3) Self-reliant agro-bio diverse farming possible.
- 4) Self-reliant agro-bio diverse farming model is more tempting for wild animals and therefore farmers who had started really following it in the recent past years, are now getting relief from this problem. Now they would find it more feasible and thus bio diverse farming would be encouraged.
- 5) Prosperity in rural areas.
- 6) Ultimately help the farmer achieve their right to security of food, nutrition and livelihood, reduce mental and physical stress, and lead sustainable family life of better quality.

Note : These guidelines are subject to modifications as and when required during the implementation of projects.

कृषि विभाग
हिमाचल प्रदेश
मुख्यमंत्री खेत संरक्षण योजना
(व्यक्तिगत – आवेदन पत्र)
 (मुफ्त)

| केवल कार्यालय प्रयोग के लिए | |
|-----------------------------|--------------------------|
| आवेदन सं० :- | आवेदन की तिथि :- |
| | दस्तावेज जांच की तिथि :- |
| | प्रविष्टि की तिथि :- |

सेवा में,

उप कृषि निदेशक/जिला कृषि अधिकारी/सहायक परियोजना अधिकारी/विषयवाद विशेषज्ञ _____
 जिला _____ हि० प्र०।

विशय :- मुख्यमंत्री खेत संरक्षण योजना के अन्तर्गत सौर इलैक्ट्रिक बाड़ लगाने के लिए वित्तीय सहायता प्राप्त करने हेतु आवेदन।

महोदय,

1. सामान्य जानकारी :

आवेदक का नाम: _____ पिता/पति का नाम : _____
 श्रेणी _____ (एसटी/एससी/ओबीसी/जनरल)

पता:- गांव : _____ ग्राम पंचायत : _____ डाकघर : _____
 _____, जिला : _____

पिन कोड : _____, फोन नं० एसटीडी कोड सहित : _____

मोबाइल फोन नं० : _____ आधार कार्ड नं० : _____

पुरुष/महिला _____ शारीरिक विकलांगता (हां/नहीं) _____

2. बैंक खाता विवरण :

2.1 बैंक खाते में किसान का नाम : _____

2.2 खाता संख्या : _____

2.3 बैंक का नाम व बैंक शाखा का पता : _____

2.4 आईएफएससी कोड : _____

3. भूमि विवरण :

3.1 खेत का नाम: _____

3.2 खाता/खतौनी सं० : _____

3.3 खेत का स्थान : अ) गांव : _____ ब) डाकघर : _____ स) जिला : _____

3.4 कुल क्षेत्र (हैक्टेयर) : _____

3.5 बाड़ के लिए प्रस्तावित क्षेत्र (हैक्टेयर) : _____

3.6 क्या क्षेत्र सिंचित है (हां/नहीं) : _____

3.7 सिंचित है तो सिंचाई स्रोत : _____

3.8 स्वामित्व की स्थिति: (अप्रासंगिक प्रविष्टि चिन्हित करें) स्वयं मालिक/संयुक्त मालिक/ विरासत (पैत्रिक/अन्य) /अन्य स्वीकृत विरासतनामा ।

4. प्रस्तावित बाड़ :

| बाड़ की किस्म | लम्बाई (मीटर) | बाड़बन्दि क्षेत्र (हैक्टेयर) | अनुमानित लागत प्रति मीटर | कुल लागत |
|---------------|---------------|------------------------------|--------------------------|----------|
| | | | | |
| | | | | |

5. प्रस्तावित बाड़ क्षेत्र के अन्दर वर्तमान में उगाई गई फसलें व प्रस्तावित फसलें (दोनों बागवानी एवं कृषि) :

| कम सं० | ऋतु | फसल | क्षेत्र (हैक्टेयर) |
|-----------------------|-----|--------|--------------------|
| अ) बाड़ लगाने से पहले | | | |
| | | | |
| | | | |
| ब) बाड़ लगाने के बाद | | | |
| | | | |
| | | | |
| | | कुल :- | |

6. चयनित सेवा प्रदाता : _____

अनुरोध किया जाता है कि बाड़ के लिए मेरे प्रस्ताव को मंजूरी जल्द प्रदान की जाये।

भवदीय,

हस्ताक्षर _____

किसान का नाम व पूरा पता _____

दिनांक _____

निम्नलिखित दस्तावेजों को सलंग्न कर दिया गया है :

1. ततिमा व जमाबन्दी की प्रति (सम्बन्धित पटवारी द्वारा जारी की गई)।
2. स्थल सर्वेक्षण योजना की प्रति (सूचीबद्ध कम्पनी द्वारा जारी की गई)।
3. बिक्रीनामा/विरासतनामा/सह-मालिक से अनापति प्रमाण पत्र/विभाजननामा/कोई दूसरा (स्पष्ट करें) की अभिप्रमाणित प्रति ।
4. बैंक पासबुक के प्रथम पृष्ठ की छाया प्रति (नाम व पूरा पता)।

कृषि विभाग
हिमाचल प्रदेश
मुख्यमंत्री खेत संरक्षण योजना
(सामुहिक - आवेदन पत्र)
 (मुफ्त)

| केवल कार्यालय प्रयोग के लिए | |
|-----------------------------|--------------------------|
| आवेदन सं० :- | आवेदन की तिथि :- |
| | दस्तावेज जांच की तिथि :- |
| | प्रविष्टि की तिथि :- |

सेवा में,

उप कृषि निदेशक/जिला कृषि अधिकारी/सहायक परियोजना अधिकारी/विषयवाद विशेषज्ञ _____,
 जिला _____ हि० प्र०।

विशय :- मुख्यमंत्री खेत संरक्षण योजना के अन्तर्गत सौर इलैक्ट्रिक बाड़ लगाने के लिए वित्तीय सहायता प्राप्त करने हेतु आवेदन।

महोदय,

1. सामान्य जानकारी :

आवेदकों के नाम:

1. _____ पिता/पति का नाम : _____ श्रेणी _____
 (एसटी/एससी/ओबीसी/जनरल)
2. _____ पिता/पति का नाम : _____ श्रेणी _____
3. _____ पिता/पति का नाम : _____ श्रेणी _____
4. _____ पिता/पति का नाम : _____ श्रेणी _____
5. _____ पिता/पति का नाम : _____ श्रेणी _____
6. _____ पिता/पति का नाम : _____ श्रेणी _____
7. _____ पिता/पति का नाम : _____ श्रेणी _____
8. _____ पिता/पति का नाम : _____ श्रेणी _____
9. _____ पिता/पति का नाम : _____ श्रेणी _____

पता:- गांव : _____ ग्राम पंचायत : _____ डाकघर : _____
 _____, जिला : _____

पिन कोड : _____, फोन नं० एसटीडी कोड सहित : _____

मोबाइल फोन नं० : _____ आधार कार्ड नं० : _____

पुरुष/महिला _____ शारीरिक विकलांगता (हां/नहीं) _____

2. बैंक खाता विवरण :

| क्रम सं० | बैंक खाते में किसान का नाम | खाता संख्या | बैंक का नाम व बैंक शाखा का पता | आईएफएससी कोड |
|----------|----------------------------|-------------|--------------------------------|--------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
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3. भूमि विवरण :

| क्रम सं० | खेत का नाम | खाता/खतौनी सं० | खेत का स्थान | | | कुल क्षेत्र (हेक्टेयर) | बाड़ के लिए प्रस्तावित क्षेत्र (हेक्टेयर) | क्या क्षेत्र सिंचित है (हां/नहीं) | सिंचित है तो सिंचाई स्रोत | स्वामित्व की स्थिति: (अप्रासंगिक प्रविष्टि चिन्हित करें) स्वयं मालिक/संयुक्त मालिक/विरासत (पैत्रिक/अन्य) /अन्य स्वीकृत विरासतनामा । |
|----------|------------|----------------|--------------|-----|------|------------------------|---|-----------------------------------|---------------------------|---|
| | | | गांव | डा० | जिला | | | | | |
| 1. | | | | | | | | | | |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |
| 6. | | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | | | | | | |
| 9. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| योग: | | | | | | | | | | |

4. प्रस्तावित बाड़ :

| बाड़ की किस्म | लम्बाई (मीटर) | बाड़बन्दि क्षेत्र (हेक्टेयर) | अनुमानित लागत प्रति मीटर | कुल लागत |
|---------------|---------------|------------------------------|--------------------------|----------|
| | | | | |
| | | | | |

5. प्रस्तावित बाड़ क्षेत्र के अन्दर वर्तमान में उगाई गई फसलें व प्रस्तावित फसलें (दोनों बागवानी एवं कृषि) :

| क्रम सं० | ऋतु | फसल | क्षेत्र (हैक्टेयर) |
|-----------------------|-----|--------|--------------------|
| अ) बाड़ लगाने से पहले | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| ब) बाड़ लगाने के बाद | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | कुल :- | |

6. चयनित सेवा प्रदाता : _____

अनुरोध किया जाता है कि बाड़ के लिए मेरे प्रस्ताव को मंजूरी जल्द प्रदान की जाये।

भवदीय,

किसानों के नाम सहित हस्ताक्षर :-

गांव _____ डा० _____ तह० _____ जिला _____

दिनांक _____

निम्नलिखित दस्तावेजों को सलंगन कर दिया गया है :

1. ततिमा व जमाबन्दी की प्रति (सम्बन्धित पटवारी द्वारा जारी की गई)।
2. स्थल सर्वेक्षण योजना की प्रति (सूचीबद्ध कम्पनी द्वारा जारी की गई)।
3. बिक्रीनामा/विरासतनामा/सह-मालिक से अनापति प्रमाण पत्र/विभाजननामा/कोई दूसरा (स्पष्ट करें) की अभिप्रमाणित प्रति ।
4. बैंक पासबुकों के प्रथम पृष्ठ की छाया प्रतियां (नाम व पूरा पता)।
5. सामुदायिक सौर बाड़बन्दी हेतु सम्बन्धित ग्राम पंचायत द्वारा पारित प्रस्ताव की प्रति।

Mukhya Mantri Khet Sanrakshan Yojna

Format to be filled in by the PIA for submission to District Nodal Officer for obtaining Administrative Approval of the project 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. | |
| Solar Electric Fencing | | |
| | a) Khasra Nos. and Size of field where farmers intend to install Solar /Regular Electric Fencing Systems | |
| | b) Perimeter of Fields | |
| | 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.) | |
| 5. | Recommendation of PIA to DNO for Administrative Approval. | |
| | Total estimated cost of Solar Powered Electric Fencing Systems. | |
| a) | Eligible cost (in Rs.) | |
| (i) | Project share (in Rs.) | |
| (ii) | Beneficiaries Share (in Rs.) | |
| 6. | 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. | Beneficiaries would contribute their share as per procedure given in the guidelines. | |

1. Certified that above details are based on spot inspection and information furnished by the beneficiaries.
2. Certified that the undertaking from beneficiaries shall be obtained on affidavit as per guidelines **Annexure-IV** 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 necessary action along with necessary estimates and documents.

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

Mukhya Mantri Khet Sanrakshan Yojna

Self Undertaking By Beneficiary/beneficiaries on Judicial Paper

(After receiving the sanction from District Nodal Officer)

I/We

.....

S/o Sh.

.....

R/o Village P.O. Tehsil Distt.

do hereby undertake the following:

1. That I/We have received approval for installation of Solar Powered Electric Fencing (-----Running meter) and I/ We am eligible to receive Project assistance amounting to Rs. after clearing the site from weeds and trees etc.
2. That I/We will provide my own undisputed well leveled land for the installation of Solar Electric Powered Fencing to the firm (from the empanelled list) opted by me /us .If any dispute arises for the non execution or delay in work then the dispute will be resolved between me/ us and the firm at our own level.
3. That if any dispute arises during execution of works ,I will be fully responsible for same and District Nodal Officer have right to withdraw the sanction.
4. I/ We undertake that I / We will sign an agreement with service provider within 15 days from the receipt of authorization.
5. That I /We will utilize and maintain the fence installed through project assistance for a period of minimum of ten years.
6. I /We will take up additional plantation / multiple crop/intercrop .That I /We will use the system to bring at least 25% area under crop diversification.
7. That I /We have not availed any assistance for creation of same .
8. That I /We do hereby declare that I/ We shall not draw power from A.C. power line of the Electricity Department.
9. That I /We undertake to maintain the fence regularly and declare that I/We shall be solely responsible for any death or damage to humans, wild animals or property due to mismanagement of the solar power fencing.
10. That I /We undertake to maintain requisite voltage by installing voltage stabilizer in case of regular electric power fencing while drawing power from A.C.power line of the Electricity Department.
11. That the content of my application submitted to the Agriculture Department for sanction of Project Assistance under **Mukhyamantri Khet Sanrakshan Yojna** are correct and no part of it is wrong and nothing has been concealed there from.

12. That I/We will pay beneficiary share (20% & 15%) for the installation of Solar Electric Powered Fencing 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.
13. That I/ We will provide well leveled site for the construction of this infrastructure at my own cost before signing of the agreement.
14. That I/We will bear the carriage charges of construction material from the pucca or kacha road head to the site.
15. That I /We will make arrangement for electricity and water etc at the site.
16. That I/We will facilitate for making stay arrangements of workers during construction period.
17. That I/We will bear the expenditure for extra features and optional items.

I/ We, further undertake that in the event of departure from the above i.e. Sr. No. 1 to 18, I /We 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 above contents are true and correct and no part of it is false and nothing has been concealed therefrom.

Verified _____ on this _____ day
of _____ 2018.

Deponent

Mukhya Mantri Khet Sanrakshan Yojna

AGREEMENT BETWEEN THE FARMER(s) AND EMPANELLED FIRM/COMPANY (SERVICE PROVIDER) FOR THE INSTALLATION OF SOLAR ELECTRIC POWERED FENCING IN FARM

(on judicial paper to be attested by Notary)

The agreement made this.....day of.....between
Shri/Smt.....
R/O..... (hereinafter called the farmers of the first party).
Shri.....s/o.....R/o..... (hereinafter called
the service provider of the Second Party. He can be 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 installation of solar/ regular electric fencing and no part of fencing will be installed on unauthorized/disputed land. If any portion of the land where fencing 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 installation of solar/ regular electric fencing . The first party will bear the head load carriage from Kacha / pucca road head to the actual site of fencing work.
3. The first party will select the model and design of fencing of his choice from the approved models and designs and will provide cheque /draft to the SMS (Agri.) equal to 40% of the cost of 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 installation of solar electric powered fencing 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 installation of solar electric powered fencing. If any dispute arises for the non execution or delay in installation of solar electric powered fencing 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 1996, 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 installation of solar/ regular electric fencing within specified time, second party will be liable to refund the entire beneficiary share with 20% interest from the date of deposit of the 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 herein above written in the presence of following
witnesses.

Signature,

Farmer(s) (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 Mukhya Mantri Khet Sanrakshan 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/Group of Farmers with complete address and telephone number. | |
| 2. | Category of Farmer(General/SC/ST) | |
| 3. | Date of Receipt of Application | |
| 4. | Date of field verification | |
| 5. | Date of Administrative Approval | |
| 6. | Date of issue of authorization letter | |
| 7. | Date of Receipt of Bills | |
| 8. | Date of Disbursement | |
| 9. | Area under Project Proposal | |
| 10. | i) Solar Powered Electric Fencing (Perimeter in Running Meter) | |
| | ii) Name of the Company executing the component. | |
| 11. | Total Project cost (Rs.) | |
| 12. | Total Financial assistance to the beneficiary @ 80% & 85% (Rs.) | |
| 13. | Beneficiary Share @ 20% & 15% (Rs.) | |
| 14. | Any other detail | |

Mukhya Mantri Khet Sanrakshan Yojna
Authorization Letter

To

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

Subject: Authorization for installation of Solar Electric Powered Fencing System under Mukhya Mantri Khet Sanrakshan Yojna .

Sir,

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

You are hereby authorized to undertake the work of Installation of Solar Electric Powered Fencing having perimeter of _____ Meters (Area _____ Ha.) with an estimated cost of Rs. _____ (Rupees _____) only through Company / Service Provider M/S _____ empanelled for this purpose vide letter No. _____ dated; _____ as per specification given in the _____ guidelines issued by the Govt. vide letter No. _____ dated _____ as per estimated cost prepared by Emapnelled Firm and submitted by PIA after spot inspection.

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

1. Eligibility of assistance for components as above would be 80% & 85% of the total cost on actual evaluation based on measurement done by the PIA or his authorized representative at site.
2. For any deviation from the given / approved specification with regard to material and design etc., you will be held responsible for the same in case, you have to forfeit assistance available under the Scheme.
3. Before undertaking installation work, you have to submit an affidavit on the prescribed form at Annexure-V.
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 site and free from weeds/ tree bushes etc in the proposed line of fence for installation of Solar Electric Powered Fence at your own cost.
7. You will have to carry the material at your own cost from motorable pucca /kuchha road head to the actual site.
8. You will have to deposit 20% or 15% of the beneficiary share as the case may be of individual / a group of farmers 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 payment 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 installation 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 Development Block _____ Distt. _____ H.P.
2. The company /Service Provider selected by the farmer for surveying, designing, supplying , installation and commissioning of Solar /Electric Fencing System in the farmers fields under Mukhya Mantri Khet Sanrakshan Yojna in H.P
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

Components wise approved Rates for supplying , installation, testing & commissioning of Solar Electric Powered Fencing Systems in the farmers fields under Mukhya Mantri Khet Sanrakshan Yojna for the year 2018-19 in H.P. State

| Sr. no. | Component | Unit | Rates Finalised after negotiation | Specifications (Make/Brand approved) |
|---------|---|-------|-----------------------------------|--|
| 1 | Energizer with built in alarm: Input Voltage: 12V DC, Input Current: 500MA, Output Voltage: 6.0KV -10.0 KV, Pulse Interval: 1.20second, Pulse Duration: 0.3Milli Second, Output energy: 2.50 Joules | Each | 10400.00 | Field Master, Crown Solar power fencing system, Smart Solar Fencing Super Security Systems Pvt. Ltd. Farm master, VIMOX INNOVATION, M/S Shree Maruti Electronics Hub (Mfg), Platinum Control System, Unique Solution, K-Con System ,G.K. Energy, Pathfinder, IBEX GALLAGHER and Kanedy. |
| 2 | Solar PV Module-72 Wp | Each | 4500.00 | Raj Ratna. IMC-Make , E-Mug Energy Pvt. Ltd., Waaree Energies, The Wolt Techniques, Powertrac Solar Projects, Sunfield Energy, Rajasthan Electronics and Instruments ltd. Luminous Power technology, Greentek India Ltd, Topsun Energy Ltd., Sunfuel Technologies, Modern Solar Pvt.Ltd. Mehar Solar Technology, APS |
| | Solar PV Module- 100Wp | Each | 5300.00 | -do- |
| 3 | Lightning diverter-Hot Dip Galvanized electromagnetic choke type with proper earthing system and have good insulation etc. Specified as per ISI. | Each. | 885.00 | Field Master, Gallagher, Kencove, Stafix and Kanedy. |
| 4 | Housing box (Dimension= 60cm x45cm x 45cm) 16 gauge sheet (1.63mm thick) | Each | 5500.00 | Confirm to IP66 specification. |
| 5 | Module stand to suit PV module. | Each | 850.00 | (65mm dia B-Class GI Pipe, 3.05long including grouting) |
| 6 | Low Maintenance Lead Acid Flooded Tubular / Valve Regulated Lead Acid Battery 75 AH - 12 Volt (Battery Dimension – Length =530mm ± 5mm x Width= 220mm± 5mmx Height = 294mm±5mm) | Each | 11500.00 | AMARA – RAJA/ Exide / Gold Star / SU-Kam, Luminous Solar Battery, Izen Power Solutions, Vishwakarma Industries |

| | | | | |
|----|--|------|----------|--|
| a | Low Maintenance Lead Acid Flooded Tubular / Valve Regulated Lead Acid Battery 100 Ah - 12 Volt (Battery Dimension – Length = 500mm ± 5mm x Width = 187mm ± 5mm x Height = 294mm ± 5mm) | Each | 14000.00 | AMARA – RAJA/ Exide / Gold Star / SU-Kam, Luminous Solar Battery, Izen Power Solutions, Vishwakarma Industries |
| b | Low Maintenance Lead Acid Flooded Tubular Low Maintenance Lead Acid Flooded Tubular / Valve Regulated Lead Acid Battery 120 Ah - 12 Volt (Battery Dimension – Length = 530mm ± 5mm x Width = 220mm ± 5mm x Height = 294mm ± 5mm) | Each | 16900.00 | AMARA – RAJA/ Exide / Gold Star / SU-Kam, Luminous Solar Battery, Izen Power Solutions, Vishwakarma Industries |
| 7 | Earthing System- MS Rod 10mm dia and 1 meter in length, Mixture of 6kg of Bentonite & 3Kgs of Coarse salt | Each | 450.00 | Power track make, Solar Fencing Super Security Systems Pvt., IMC Make to be capable of providing proper earthing to system & one rod after every 500 mtr, |
| 8 | Strain Insulator UV stabilized. High quality virgin nylon rated for 15 KV UV Stabilized. | Each | 14.00 | Field Master, Crown Solar power fencing system, Smart Solar Fencing Super Security Systems Pvt. Ltd. Farm master, VIMOX INNOVATION, M/S Shree Maruti Electronics Hub (Mfg), Platinum Control System, Unique Solution, K-Con System ,G.K. Energy, Pathfindeer, IBEX GALLAGHER and Kanedy. |
| 9 | Reel insulators UV Stabilized, Virgin polypropylene plastic UV Stabilized rated for 15KV operation. | Each | 8.00 | -do- |
| 10 | High tensile wire- ACSR Conductor wire, 2.59 mm (12 gauge), TATA make | Mtr. | 6.25 | TATA / Bajrang make/IMC make, |
| 11 | Wire Tightners (Round & Oval Shape) Tightners should be used proper tension high quality Zinc coated, Made of special aluminium alloy non rusting quality. | Each | 62.00 | Features: Corrosion proof, Aluminium Alloy, Long Lasting Specifications: Wheel height: 22 mm, Daisy wheel strainer weight: 105g, Wheel DIA: 75 mm |
| 12 | Line Tension Springs | Each | 147.00 | (Dimension: 20cm long x 3.5cm dia) Galvanized coated as per Indian Standard. |
| 13 | Joining Clamps, | Each | 8.00 | Galvanized coated as per Indian Standard, Galvanized coated 30 microns as per Indian |

| | | | | |
|----|---|------|---------|---|
| | | | | Standard. |
| 14 | Warning sign Boards Yellow with black lettering in English polyethylene plastic. | Each | 30.00 | Polyethylene plastic with Yellow background and black letters in English on one side & Hindi on other side after every 100 mtrs. |
| 15 | Lead out cable | Mtr. | 25.00 | Double insulated with standing 20KV voltage. 12G hot dip galvanized wire with 9 mm thick insulation., galvanized steel wire core, can be used above ground or underground, ideal for power supply at gates, suitable for distances over 100m |
| 16 | Tool kit containing wire tightens handle twisting tool, pliers, double ended spanner for joining clamp tightening. Set of Screw Driver | Each | 800.00 | Taparia, |
| 17 | Flood gate controller with Drop chains. | Each | 200.00 | Specifications as per Indian Standard |
| 18 | Cut out switch PP make Spring/Steel Rope with handle made of polyethylene. | Each | 1500.00 | A-one Fence /Crown/ ISI/Field master / Kanedy |
| 19 | Section/Corner posts - MS with Galvanised, 40mm dia Pipe, 2.74 meter with PP Insulator riveting, marked in blue colour for identification | Each | 1130.00 | Jindal Pipe Limited, Tata Structures, Asian Tube Ltd. Gujrat, Swastik Pipe Ltd. Ahemdabad, Bushan Power & Steel Ltd. UP, Hissar Pipe, APL Apollo Tubes, Gujrat, GI Pipe India Ltd. UP, Jadia Pipes (India), Rawalwasia Steel Plant, As per specified specification –Part-I IS No.- IS:1239 (Pt.-I)2004 (Approved under Dr. Y.S. Parmar Kisan Swarojgar Yojna) |
| 20 | Support Posts- MS with Galvanised, 25mm dia Pipe, 2.60m with PP Insulator riveting, marked in blue colour for identification | Each | 790.00 | -do- |
| 21 | Intermediate posts - MS with Galvanised, 25mm dia Pipe, 2.60meter with PP Insulator riveting, marked in blue colour for identification | Each | 790.00 | -do- |
| 22 | Digital volt meter- Must be display digitally up to 12KV only. Crown made automatic On & Off LCD Screen. Must be display digitally up to 12KV only. | Each | 4720.00 | A one / <u>Gallagher Digital voltmeters</u> / Field Master/Crown/ Kanedy |

| | | | | |
|----|--|------------------|---------|---|
| 23 | Xenon flash tube Capable of flashing which each pulse to monitor the fence working. | Each | 700.00 | A one / <u>Gallagher</u> / Field Master/Crown/Kanedy |
| 24 | Neon tester 5 neon light measuring the fence for excellent very good and poor and not working marking. | Each | 525.00 | AKA/Crown / Field Master/ <u>Gallagher</u> /Kanedy |
| 25 | PCC for Grouting of posts 1:3:6 | Cum | 4700.00 | Earth work and Cement Concrete specifications as per Indian Standard. |
| 26 | Hooter | Each | 220.00 | IOTA /Field master make 118 DB. |
| 27 | Installation charges | Mtr. | 75.00 | Rs. 75-/m approved for whole length. For Example: The total perimeter of farm is 500m for 5 ,7,9 & 11 wire, the total cost would be Rs. 37500/- only for calculation of assistance. |
| 28 | System testing & commissioning | For whole system | 2360.00 | - |

Optional Items to be executed by farmers

- 1) Farmer shall have to install gate on his farming land proposed to be fenced as per his choice out of his own financial resources.
- 2) Any other items for which rates have not been approved. The companies intending to fix special type of fixtures as per farmers demand will have to get rates authenticated from the directorate.

- Note:-**
- 1) If the above optional items can be fixed within approved unit rates given at **Annexure –VIII** , then the same shall be considered for release of assistance otherwise extra cost if any will be borne by the beneficiary.
 - 2) Farmer may have a choice to use R.C.C Pole ,Wooden Pole etc in place of Round G.I. Pipe , the payment shall be made to farmer on the basis of actual assessment. Farmers shall have to produce bills of poles to the department.
 - 3) Farmer may have a choice to execute civil work such as digging of hole and providing & laying of concrete for grouting of Posts , accordingly,the payment of subsidy @ 80%& 85% of the total assessed value for this particular items on the basis of actual measurements done by the Core team shall be made to farmer.

Technical Specifications

1. Basic Parameters of fencing:

- i) Maximum distance between 2 support posts - 10 Mts. or as per site requirements.
- ii) Maximum Distance between 2 intermediate posts - 5 Mts. or as per site requirements.
- iii) No. of strands – 5, 7, 9 & 11 Nos. (5, 7, 9 & 11 wires in vertical)
- iv) Height of fence above the ground – 2.00m.
- v) Total Pole Height (Above+Below Ground level:- 2.60m.
- vi) Spacing between two rows (Minimum 0.15m to maximum 0.30m) depending upon the type of animals in the areas.
- vii) Provision for gates to be decided on site after visit of field
- viii) Energizer capacity - 1 Energizer per site with built in alarm system
- ix) System should ensure shock ability at the beginning and end of the fence.
- x) The ground to earth voltage must be not more than 200 volts.
- xi) The supplier should provide operation and maintenance manual which should contain details about the solar power fencing. Clear instructions about the maintenance and trouble shooting, DO's and DONTs., relevant details and drawings for regular maintenance.
- xii) The relevant test reports of the items, if available may also be enclosed.
- xiii) The technicians of the firm should visit the site once in a month during the warranty period

Rate should be quoted as per price schedule.

Detailed specifications of Solar Power Electric Fencing

| Description | Specification | Remarks |
|-----------------|--|---|
| Energizer | Energy : 2.5 Joules (mini.) or as per site requirement | Must conform to IEC 60335-2-76 International standards of Safety & CE Certificate and have onboard LCD with keypad for programming |
| | Solar panel option to recharge 12- volt battery DC. | |
| | Output characteristic of the energizer should be as follows | |
| | Peak of o/p voltage : 6.0kv - 10 kv on 50k load. | |
| | Pulse interval :- 1.0 -1.2 Sec. | |
| | Pulse Duration: 0.3 Milli Second | |
| | Peak current :- 7.0-8.0 A – High | |
| | RMS Current :- 2.4 – 2.8A – High. | |
| Solar PV Module | 72 watts to 100watts. 12 volts rating with minimum 10 years warranty against manufacturing defects. | Must be of MNRE approved company |
| Module Stand | MS Hot dip galvanized to minimum of 60 microns zinc coating thickness. Must have a provision to tilt the solar module. | To suit PV module |
| Battery | 12 volts Tubular 80-120 Ah maintenance free battery with 2 years guarantee. | Must be of reputed Brand. |
| Lightening | Must be capable of diverting stray lightening. | With proper earthing |

| | | |
|--|--|---|
| diverter kit Earthing system | The diverter assembly must be adjustable for spark gaps. | system and have good insulation. |
| Housing box with post | Made of 16 gauges GI sheet, painted and fixed on 50 NB class B pipe and must be grouted. | Must confirm to I.P.66 specifications. |
| | Should be capable of safety housing battery and energizer with lock & key | |
| B' Accessories | | |
| Earthing system | Must contain earth mixture capable of retaining moisture | Should be capable of providing proper earthing to the system and one rod after every 100 meters length or as per system requirements. |
| | 8 mm dia stainless steel rod – non rusting quality of 1.20 meter long. | |
| Strain Insulators | End strain insulators must be of Poly-carbonate /Nylon material and should withstand 15 kv voltage. | Rain water run-off should be provided on the insulator & UV stabilized as per system requirements. |
| Reel Insulators | Must be of virgin plastic material Poly-Propylene or equivalent. | UV stabilized as per system requirements. |
| High tensile wire- ACSR Conductor wire. | 2.5-2.59 mm wire diameter (12 gauge) | Tata make. Test certificate may be submitted. |
| | High tensile wire with minimum of 230- 300 gms /sq. Rust free , M zinc coating thickness. | |
| | UTS 140.5 kg/mm ² . | |
| | Break strength of 740 kgs. | |
| 14g Wire | 14g wire for binding reel insulators. | High quality zinc coating. |
| Wire Tightners | Should be made from Al. Alloy non rusting quality. | Tightners should be used for proper tensioning of wires |
| Tension Springs | Spring steel capable to taking compression loads. To be galvanized. | |
| Joining clamps | Positive locking mechanism. | One side rotation. |
| | Zinc coating of more than 25 microns. | |
| Warning signs | Polyethylene plastic with statutory colors and signs | Yellow with black lettering in English & Hindi Language |
| Lead-out cable | Must be double insulated withstanding 15 KV voltage. | |
| | Inner core wire must be hot dip galvanized. | |
| Rope Gate Kit | Steel rope with handles & spring assembly. | Length of rope to suit gate width. |
| | Handle made of Polyethylene. | |
| Tool Kit | Should contain, Wire tightner handle twisting tool, Pliers, double ended spanner for joining clamp tightening. | |
| ‘C’ Posts | | |
| Corner / End /Bi- | 40 Nominal Bore G.I. Pipe (Medium -Class | 0.60meter length of the |

| | | |
|------------------------------|--|---|
| arm /Pull through posts | B ,Wall thickness -3.2mm). Hot dip galvanized to more than 60 microns, The pipe is marked in blue colour for identification. conforming to IS 4759-1996. | posts must be grouted in 45 x 60 x 60cm size P.C.C. 1:3:6 Cement, Coarse s and & stone ballast. |
| Support post | 25 Nominal bore G.I. Pipe (Medium -Class B marked in blue colour for identification-Wall thickness -3.2mm). Hot dip galvanized to more than 60 microns, conforming to IS 4759-1996. | -do- |
| Intermediate Posts | 25 nominal bore GI Pipe ((Medium -Class B marked in blue colour for identification-Wall thickness -3.2mm) duly riveted with reel insulator. Hot dip galvanized to more than 60 microns conforming to IS 4759-1996. | 0.60 meter length of the posts must be grouted in 45 x 60 x 60cm size P.C.C. 1:3:6 Cement, Coarse Sand & Stone. |
| D' Testing Equipments | | |
| Wireless Digital Volt Meter | Must display fence voltage digitally up to 12 KV only. | |
| | Made of non shocking plastic. | |
| | Fault Finder | |
| Xenon Flash Tube | Xenon tubes capable of flashing with each pulse to monitor the fence working. | Must be viable from distance. |
| Neon Tester | 5 neon lights measuring the fence for excellent, very good, good and poor & not working markings | Good quality |

Note:-

- i) **Every** energizer shall have at least 5 nos. earth pits and minimum one no. earth pit at every 100 Mtr. long fence line.
- ii) **All** insulators shall be UV protected and should with-stand 15 KV. Test certificate for the same may also be submitted along with supplies.
- iii) **Warning** sign boards should be at every system, gate and also at every 500Mtr. along fence line.
- iv) **All** the metal components like posts, joint clamps etc. should be hot dip galvanized and test certificate shall be submitted along with supplies.

LIST OF EMPANELLED COMPANIES

| Sr.No | Name of Firm | Mobile No. | E-Mail |
|-------|---|---|--|
| 1. | M/s Crown Solar Power Fencing Systems, Flat No. 123/A Ushodaya Tower Shapur Nagar, Jeedimetla Hyderabad-500055. | 93910-16607 | chandra@crownsolar.com , crownsolar@yahoo.com |
| 2. | M/s S.S. Enterprises. Karishna Bhawan Village Shamti, Distt. Solan H.P. | 098823-00478 | sssolan2014@gmail.com |
| 3. | M/s Sai Steel Co & Consultants. Ris. Gian Chand Patial Complex, Village & Post Office : Didwin Tikker, Tehsil & Distt. Hamirpur, H.P. | 94184-70947 | saisteelco@gmail.com |
| 4. | M/s Himachal Agro- Seeds and Pesticides # 338, Sunny View, Nr. HB Colony Saproon, Distt. Solan, H.P. | 82620-16273 | ramankapila44@gmail.com |
| 5. | M/s Surya Sirmour. Vill. Nahar, PO: Chalana, Tehsil: Dadahu, Distt. Sirmaur, H.P. | 093181-08282, 94188-92962 | suryasirmour@gmail.com |
| 6. | M/s Poly Hub Agro International .Vill. Panjethi, PO: Telyahar, Tehsil: Mandi Sadar, Distt. Mandi, H.P. | 90349-91676, 76777-22111, 94162-54023 | polyhubagrointernational.hp@gmail.com |
| 7. | Sh. Barjesh Kumar Sharma, M/s Angiras Agriclinc, Agribusiness & Training Centre .NAC Shopping Complex, Shop No. 2-3, Near Subji Mandi, Santoshgarh, Tehsil & Distt. Una, H.P. | 88945-49405 | barjeshangiras@ymail.com |
| 8. | M/S Solar Dhara Technologies, Mall Road, Opp. Girl School, Solan (H.P.) - 173212 | 94780-00187 | ajaysahani@hotmail.com |
| 9. | Sh. Vikram Minhas, Mobile Vehicle Services, #405, AOT Complex, Sector 48A, Chandigarh -160047 | 85911-51484 | vikmanhas33@gmail.com |
| 10. | M/S Ocean Electronics, 17/D6, Meldi, Nr. Gota Rly. Crossing, Gota, Ahmedabad-382481 (Gujrat) | 93777-71333 | oceangota@gmail.com , kanedyindustries@gmail.com |
| 11. | M/S Sanjay General Store C/o Sanjay Rana Govt. Contractor, S/o Sh. Gian Chand VPO-Bara, Tehsil: Nadaun, Distt. Hamirpur. | 97360-58683, 82194-72433 | rana001977@gmail.com |
| 12. | M/S Vipan Chand Govt. Contractor, S/o Sh. Dharam Singh R/O Vill. Surah P.O. Lag Devi, Tehsil :Tauni Devi, District Hamirpur.H.P. | 88945-45939 | suppahiyavipen@gmail.com |
| 13. | M/S Earth Agro Structures Pvt. Ltd., Cabin No.425, 4 th Floor, Golden Square, Zirakpur, Mohali, Punjab. | 80540-19000, 97805-59400 | info@earthagro.com |
| 14. | M/S Manjushree Agrotech, Plot No. 32, Sector-5, Parwanoo, Distt. Solan-173220 (H.P.). | 98162-77591 | valiantin@hotmail.com |
| 15. | M/S Green Agrotech, Vill. Guwaon, | 98162-15265, | greenagrotechberthin@g |

| | | | |
|-----|--|---|--|
| | P.O. Berthin, Tehsil: Jhandutta, Distt. Bilaspur, H.P., | 98171-64315 | mail.com |
| 16. | M/S Swan Rangers, H.O. Pirhipur Road, Daulatpur Chowk, Tehsil: Ghanari, Distt. Una (H.P.). | 98160-35222, 98055-62574 | hitechagropoly@gmail.com |
| 17. | M/S Parmar Traders, (Suraj Kumar Parmar S/O Sh. Dhian Singh)Vill. Tillu Pratham, Bela Distt. Hamirpur, H.P. 177033 | 97368-94363, 82620-20782 | nephewriyansh@gmail.com |
| 18. | M/S Dev Bhoomi Green House Solution, Vill. Lakhroon, P.O. Jasana, Tehsil: Bangana, Distt. Una, H.P. 174307 | 98164-63682, 96253-03682 | rajinder197878@gmail.com |
| 19. | M/S MG Solar Gysers & Cookers, Near Kusum Theater, Jail Road, Mandi, H.P. | 92164-88224, 94184-35063 | mgsolar@rediffmail.com |
| 20. | M/S Primus Energy Solutions Pvt. Ltd., Plot No. 1-Vijay Vihar, Behind IBM Star Mall, NH-8, Sector -30, Gurgaon-122018, Haryana | 87997-54673 | ballani.lal@gmail.com |
| 21. | M/S Himoday Solar Energy Pvt. Ltd., Vill. Ranvi ,Rampur Bsr,District: Shimla (HP) -172102 | 78071-14535, 94180-14535 | himodaysolar@ gmail.com |
| 22. | M/S Captain Polyplast Ltd, Near HP Petrol Pump, Mahadev, Teh: Sundernagar, Distt. Mandi(H.P.) - 175018 | 70184-05380, 89880-05499 | solan@captainpolyplast.in , bilaspur@captainpolyplast.in |
| 23. | M/S Sunshed Energy Pvt. Ltd., A-18, Tower No. 4 2nd Floor, Sector 6, Noida, Gautam Buddha Nagar, U.P.- 201301 | 95995-56428 , 98102-92100 | sunshedenergy@gmail.Com |
| 24. | M/S Interglobe Manufacturing Company, Vill: Baral, PO:- Hamirpur, Distt. Hamirpur (H.P.) 177005 | 98058-40569, 70484-45577, 84019-74037 | ppverma79@yahoo.com |
| 25. | M/S Mandi Agrotech Pvt. Ltd., Vill. Dadour, P.O. Ner Chowk, Tehsil: Balh, Distt. Mandi (H.P.) 175008 | 97360-00049, 97362-00012, 94189-22049 | mandiapl2018@gmail.com , |

Final Bill of Quantity for Calculation of Subsidy

- 1) Name of Beneficiary:-
 2) Category of Beneficiary: -
 3) Vill:- P.O. Tehsil:- Distt.:-
 4) Area protected under Fence:-
 5) Length of Fence :-

| Sr. No. | Particular of Items | Quantity | Unit | Rate | Amount(Rs.) |
|---------|--|----------|------|------|-------------|
| 1. | Energizer with built in alarm: Input Voltage: 12V DC, Input Current: 500MA, Output Voltage: 6.0KV -10.0 KV, Pulse Interval: 1.20second, Pulse Duration: 0.3Milli Second, Output energy: 2.50 Joules | | | | |
| 2. | Solar PV Module-72 Wp | | | | |
| | Solar PV Module- 100Wp | | | | |
| 3. | Lightning diverter-Hot Dip Galvanized electromagnetic choke type with proper earthing system and have good insulation etc. Specified as per ISI. | | | | |
| 4. | Housing box (Dimension= 60cm x45cm x 45cm) 16 gauge sheet (1.63mm thick) | | | | |
| 5. | Module stand to suit PV module. | | | | |
| 6. | Low Maintenance Lead Acid Flooded Tubular / Valve Regulated Lead Acid Battery 75 AH - 12 Volt (Battery Dimension – Length =530mm ± 5mm x Width= 220mm± 5mmx Height = 294mm±5mm) | | | | |
| | Low Maintenance Lead Acid Flooded Tubular / Valve Regulated Lead Acid Battery 100 Ah - 12 Volt (Battery Dimension – Length =500mm ± 5mm x Width= 187mm± 5mmx Height = 294mm±5mm) | | | | |
| | Low Maintenance Lead Acid Flooded Tubular Low Maintenance Lead Acid Flooded Tubular / Valve Regulated Lead Acid Battery 120 Ah - 12 Volt (Battery Dimension – Length =530mm ± 5mm x Width= 220mm± 5mmx Height = 294mm±5mm) | | | | |
| 7. | Earthing System- MS Rod 10mmdia and 1 meter in length, Mixture of 6kg of Bentonite & | | | | |

| | | | | | |
|-----|--|--|--|--|--|
| | 3Kgs of Coarse salt | | | | |
| 8. | Strain Insulator UV stabilized. High quality virgin nylon rated for 15 KV UV Stabilized. | | | | |
| 9. | Reel insulators UV Stabilized, Virgin polypropylene plastic UV Stabilized rated for 15KV operation. | | | | |
| 10. | High tensile wire- ACSR Conductor wire, 2.59 mm (12 gauge), TATA make | | | | |
| 11. | Wire Tightners (Round & Oval Shape) Tightners should be used proper tension high quality Zinc coated, Made of special aluminium alloy non rusting quality. | | | | |
| 12. | Line Tension Springs | | | | |
| 13. | Joining Clamps, | | | | |
| 14. | Warning sign Boards Yellow with black lettering in English polyethylene plastic. | | | | |
| 15. | Lead out cable | | | | |
| 16. | Tool kit containing wire tightens handle twisting tool, pliers, double ended spanner for joining clamp tightening. Set of Screw Driver | | | | |
| 17. | Flood gate controller with Drop chains. | | | | |
| 18. | Cut out switch PP make Spring/Steel Rope with handle made of polyethylene. | | | | |
| 19. | Section/Corner posts - MS with Galvanised, 40mm dia Pipe, 2.74 meter with PP Insulator riveting, marked in blue colour for identification | | | | |
| 20. | Support Posts- MS with Galvanised, 25mm dia Pipe, 2.60m with PP Insulator riveting, marked in blue colour for identification | | | | |
| 21. | Intermediate posts - MS with Galvanised, 25mm dia Pipe, 2.60meter with PP Insulator riveting, marked in blue colour for identification | | | | |
| 22. | Digital volt meter- Must be display digitally up to 12KV only. Crown made automatic On & Off LCD Screen. Must be display digitally up to 12KV only. | | | | |
| 23. | Xenon flash tube Capable of flashing which each pulse to | | | | |

| | | | | | |
|-----|--|--|--|--|--|
| | monitor the fence working. | | | | |
| 24. | Neon tester 5 neon light measuring the fence for excellent very good and poor and not working marking. | | | | |
| 25. | PCC for Grouting of posts 1:3:6 | | | | |
| 26. | Hooter | | | | |
| 27. | Installation charges | | | | |
| 28. | System testing & commissioning | | | | |
| 29. | Any other items | | | | |
| | G.Total : | | | | |

Total Cost as per actual assessment :- Rs.

Subsidy @ 80% payable to Service Provider :- Rs.

Beneficiary Share @ 20% as per actual assessment :- Rs.

Certified that the measurements are recorded as per actual work done at site and materials used in the fencing work are in accordance with the approved specifications and as per the actual requirement / need of the site.

Signature of Core Team

Mukhya Mantri Khet Sanrakshan Yojna

Certificate from farmer

(For release of 80% amount)

This is to certify that the M/s _____ Solar Fencing Company has fulfilled the following requirements.

1. Service Provider has installed Solar Fencing system to the best of my satisfaction and handed over the same alongwith Maintenance Manual.
2. I have been trained by the Solar Fencing Company for the operation and maintenance of the system.
3. All components used during installation of Solar Powered Fencing Systems are as per technical specifications and my satisfaction.
4. Received copy of final invoice tallied with the material installed in the field as per the update design.
5. Trial run was done by the Solar Fencing company and is working satisfactory.

Date:

Signature of the farmers

Name

Witness:

Signature of authorized representative of
Solar Fencing Company

Name:

Performa for Furnishing Monthly Progress Report under Mukhya Mantri Khet Sanrakhsan Yojna on Individual farmers /Group of Farmers fields.

1. Name of District:-
2. Month :-
3. Detail of Progress Reports:-
4. Funds Allocated under different Categories:

| Components | Detail of Beneficiaries | | Physical Ach. | | Financial Ach. (Rs. In Lakh) |
|---|-------------------------|---------------------------|---------------|------------|------------------------------|
| | No. | Category (General/ SC/ST) | Running Meter | Area (Ha.) | |
| Installation of Solar Powered Electric Fencing System | | | | | |
| a) Individual Farmers | | | | | |
| b) Group of Farmers | | | | | |
| G.Total :- | | | | | |

Annexure-XIV
Performa for Furnishing Quarterly Progress Report under Mukhya Mantri Khet Sanrakshan Yojna on Individual farmers /Group of Farmers fields.

1. Name of District:-
2. Quarter :-
3. Detail of Progress Reports:-

| Components | Phy. Progress up to previous Quarter | | Phys. Progress During the Quarter | | Total Phy. Progress | | Fin. Progress up to previous Quarter (Rs. In Lakh) | Fin. Progress During the Quarter (Rs. In Lakh) | Total Fin. Progress (Rs. In Lakh) |
|---|--------------------------------------|-----------------------------|-----------------------------------|-----------------------------|---------------------|-----------------------------|--|--|-----------------------------------|
| | Nos. of Ben. | Area in Ha. & Perimeter (M) | Nos. of Ben. | Area in Ha. & Perimeter (M) | Nos. of Ben. | Area in Ha. & Perimeter (M) | | | |
| Installation of Solar Powered Electric Fencing System | | | | | | | | | |
| a) Individual Farmers | | | | | | | | | |
| b) Group of Farmers | | | | | | | | | |
| G.Total:- | | | | | | | | | |

Terms and Conditions to be followed / observed by the Companies shortlisted on the basis of Technical & Financial Bids to act as Service Providers for undertaking the work of supplying , installation, testing & commissioning of Solar Electric Powered Fencing Systems in the farmers fields under Mukhya Mantri Khet Sanrakshan Yojna for the year 2018-19 in H.P. State .

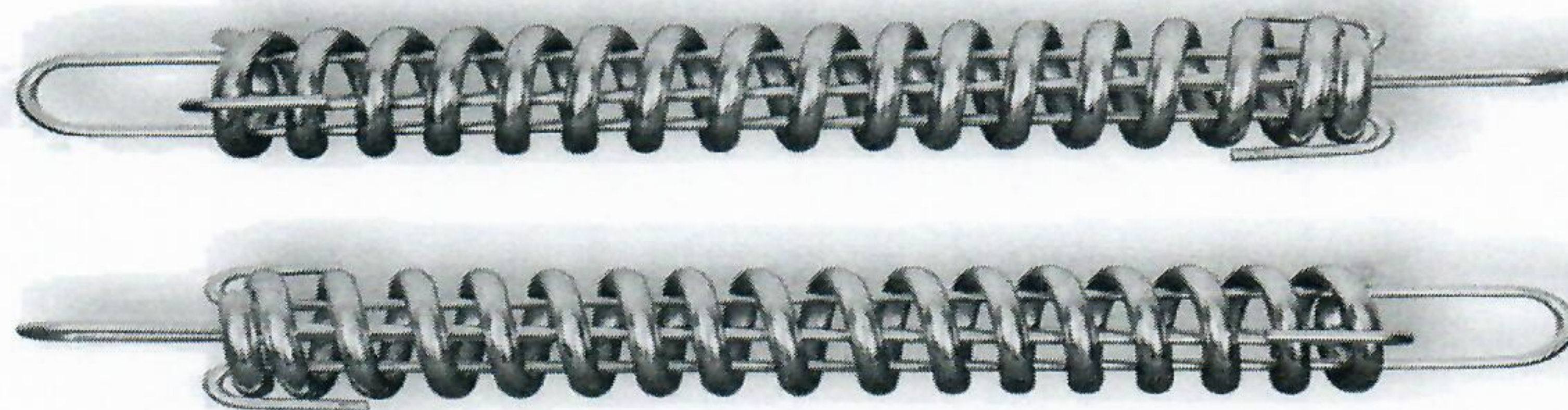
1. The empanelled firms/companies are required to undertake proper survey , planning ,estimation before installation of Solar Electric Powered Fencing Systems in the farmers fields, and their testing & commissioning as per site specific fields in all the districts of the State. They will undertake above process on the demand and need of beneficiaries.
2. That the company will execute the project as per approved component wise rates of Solar Electric Powered Fencing and specifications prescribed for construction material on the rates approved by the Govt.
3. The item wise approved rates shall be applicable for one year in the first instance and the period can be extended depending upon the need and requirement or till the new rates are finalized. The rates of components to be used in fencing work alongwith specifications of construction material are enclosed **at Annexure-VIII**. The components to be used by the all the Firms / Service Providers should be of uniform size **as per Annexure-XIV** enclosed alongwith drawings .
4. The approved rates are inclusive of all taxes but are exclusive of cost of development of site.
5. The approved rates are for planning, designing alongwith installation , testing and commissioning of solar electric powered fencing systems as per project targets.
6. The infrastructure to be constructed / installed on behalf of the farmers by the company will be under warranty for 2 years and therefore any damage to the installed system/structure, due to defective construction will be rectified/ corrected by the company free of cost.
7. 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 through out the State. To ensure this, department can fix minimum targets to the company with respect to hard areas including backward Panchayats and tribal pockets.
8. 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 infrastructure.
9. The empanelment fee of Rs.50000/- for installation of supplying , installation, testing & commissioning of Solar Electric Powered Fencing Systems in the farmers fields under Mukhya Mantri Khet Sanrakshan Yojna for the year 2018-19 in the state is 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 new innovative farming practices , outsourcing of technical staff in case of shortage of staff and for transfer of relevant technological interventions.

10. The company shall have to complete the Solar Electric Powered fencing work in all respects within 90 days from the day when agreement is signed with the farmer. It is mandatory that farmers will deposit his contribution i.e. 20% & 15% at the time of signing of agreement with farmer. 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.
11. 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.
12. All other optional items mentioned in the different 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.
13. The installed Solar Electric Powered Fencing systems 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.
14. The companies are not only required to install infrastructure in a time bound manner but it has to be workable, smooth and safe and installation of same should be to the best satisfaction of beneficiary /PIA.
15. Project assistance would be released to the beneficiary after completion and 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 by the PIA after their full satisfaction.
16. Before actual execution, the company and the beneficiary shall have to sign a legally valid contract as per agreement form Annexure-VI of the operational guidelines.
17. No billing is allowed from outside the state so the companies will have to obtain the necessary TIN No. within 15 days from the date of empanelment.
18. The company is being empanelled provisionally and decision for regular empanelment will be taken after two months from this date and the same shall depend upon fulfillment of terms and conditions provided in the technical and financial bids. In the event of non fulfillment of agreed terms and conditions, the company is liable to be de-empanelled.
19. Any departure from the agreed terms and conditions stipulated in the technical and financial bids and enlisted above from 1 to 18 shall tantamount to recovery of the amount equal to default with interest and the same can be changed to the bank guarantee of Rs.10 lac. For repeated violation of agreed terms and conditions, the company would be liable for de-empanelment or black listing as the case may be. However, before de-empanelment or blacklisting, the matter shall be referred to the Govt.

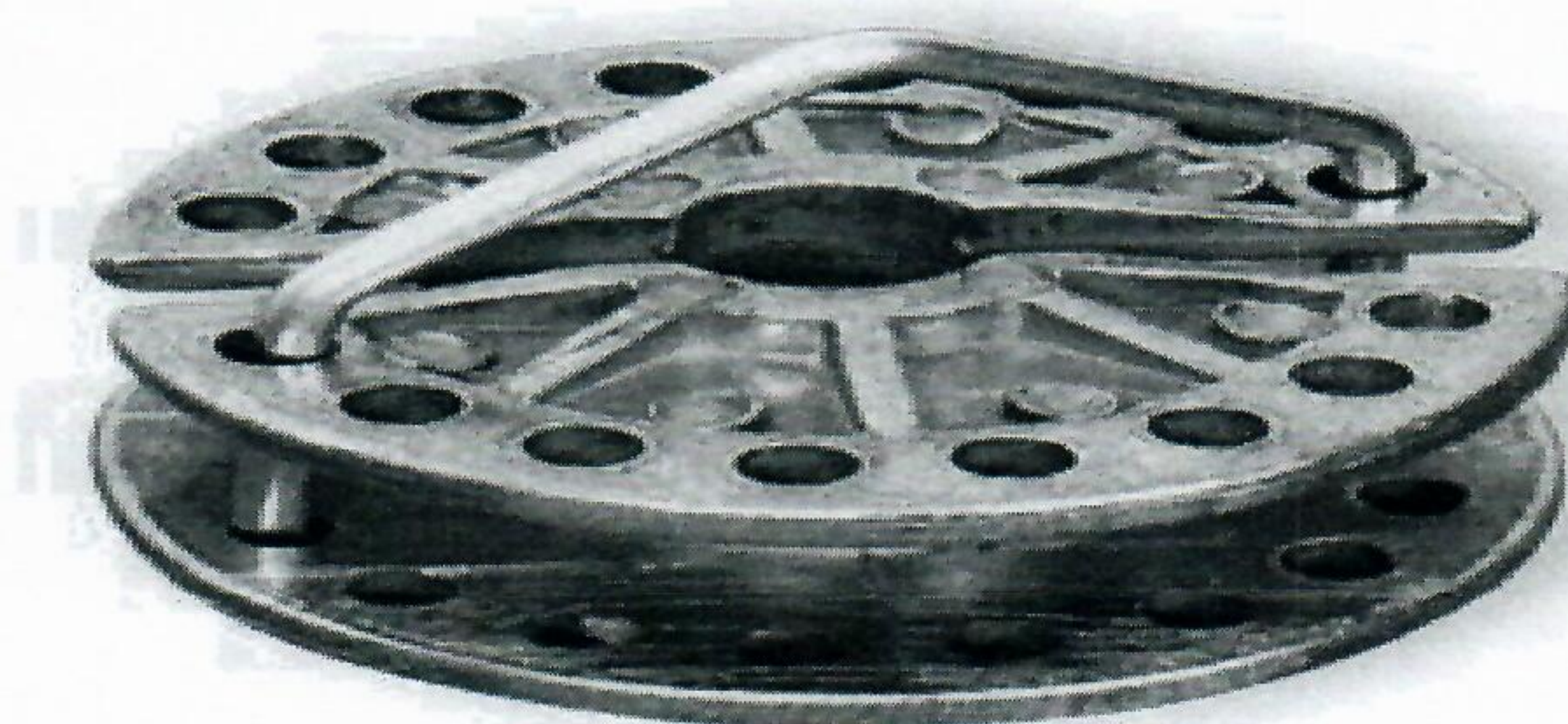
The operational guidelines of the scheme are available on the website of the Department of Agriculture i.e. **www.hpagriculture.com**.

Identification of Material & their Size

- 1) **Line Tension Springs**:- are used to maintain adequate tension in the electric fence, and also used on the top line of the fence to prevent damage if the fencing is done with coconut trees as posts.



- 2) **Permanent Wire Tightners** :- are manufactured by pressure die casting process using LM6 grade aluminium alloy. It is strong and light weight. It is used to tighten fence wires and maintain adequate tension. No need to cut fence wire, just slip this permanent tightner over the wire and turn.



Features: Corrosion proof, Aluminium Alloy, Long Lasting

Specifications: Wheel height: 22 mm, Daisy wheel strainer weight: 105g, Wheel DIA: 75 mm, Oval & Circular Shape.

- 3) **Tightening Tool**:- Professional tool to use with permanent wire tightner for electric fence. It helps to install the permanent wire tightner to your electric fence in a fast and easy way.

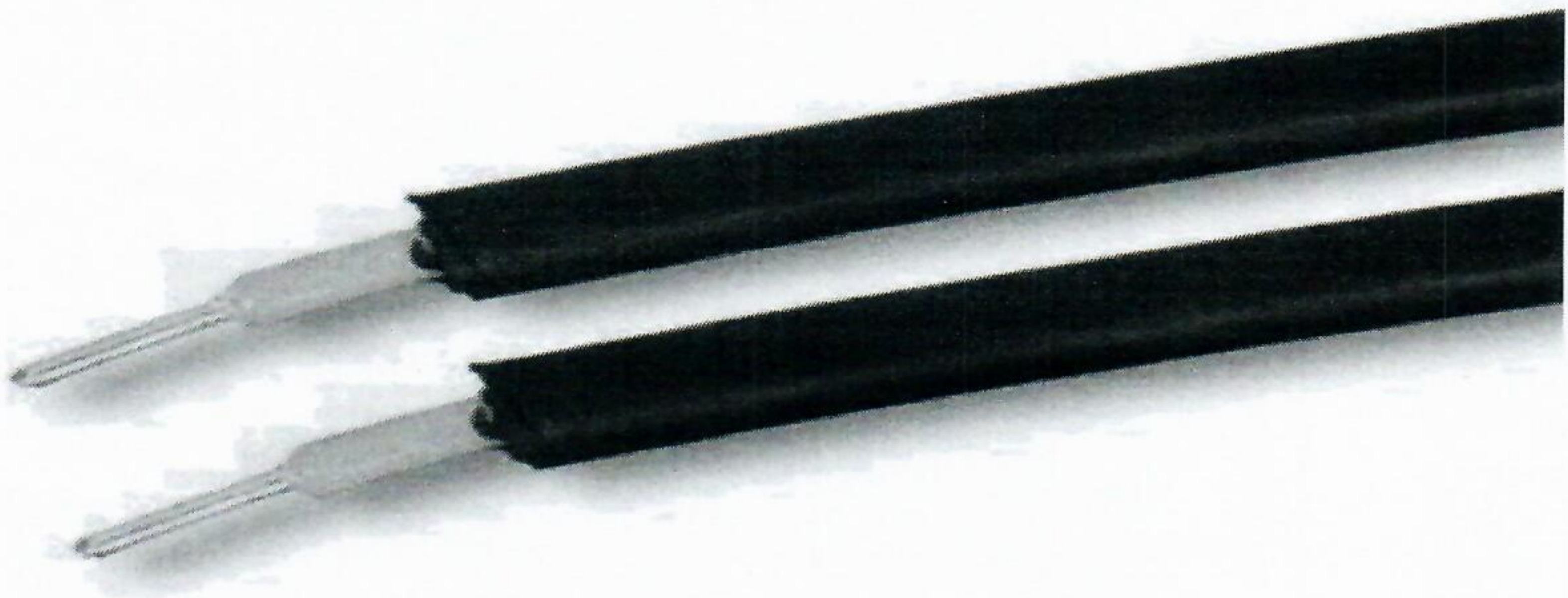


Under precious guidance of our skilled professionals, we are offering a distinguished assortment of **Fence Joint Clamps**. Manufactured using superior quality components and cutting edge technology, these joint clamps are excellent in quality using to Loop the Connection and Join intercepting Points in the Fencing

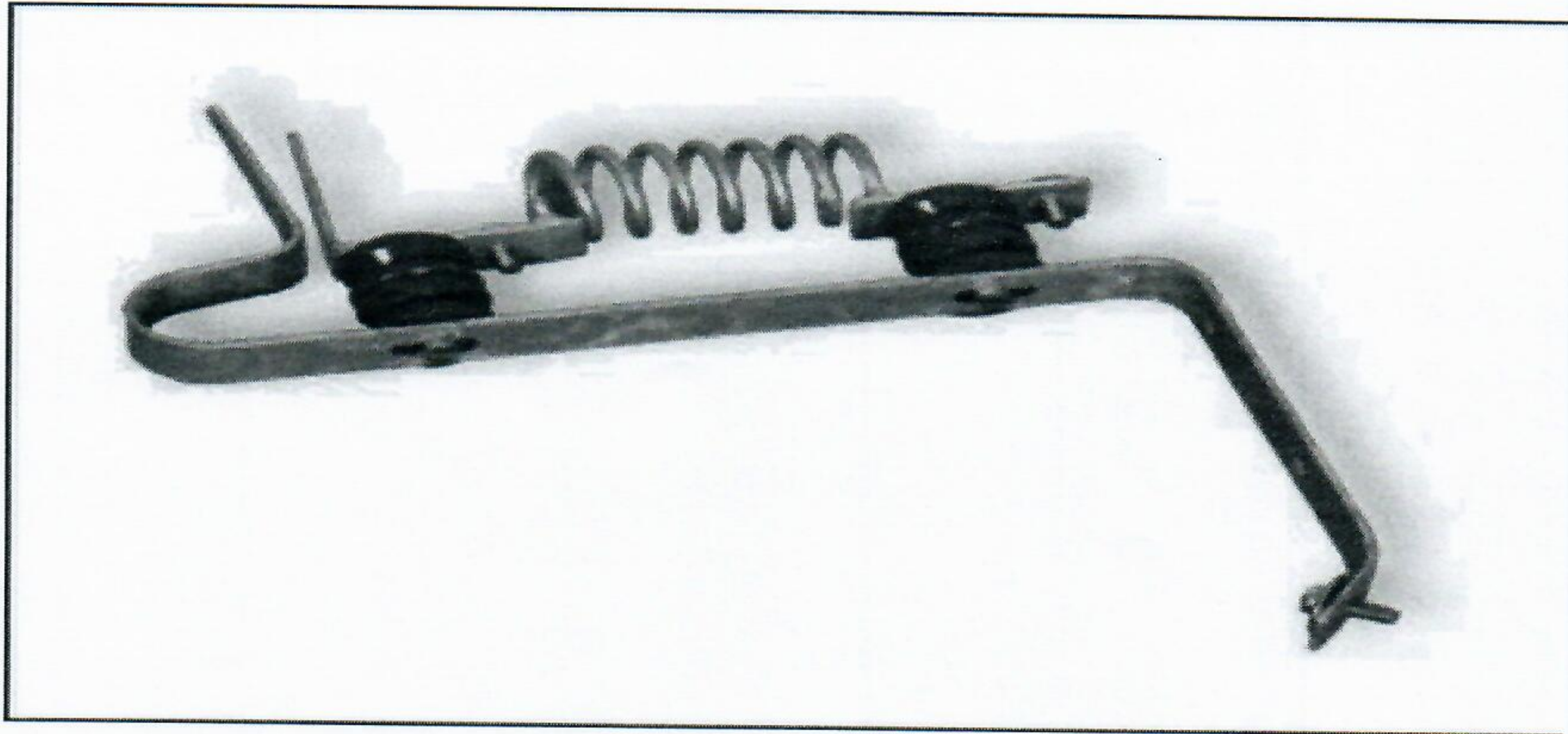
Features: Corrosion resistance, Rugged design, Excellent performance

Specifications: GI Zinc Coated bolt and nut with step washer

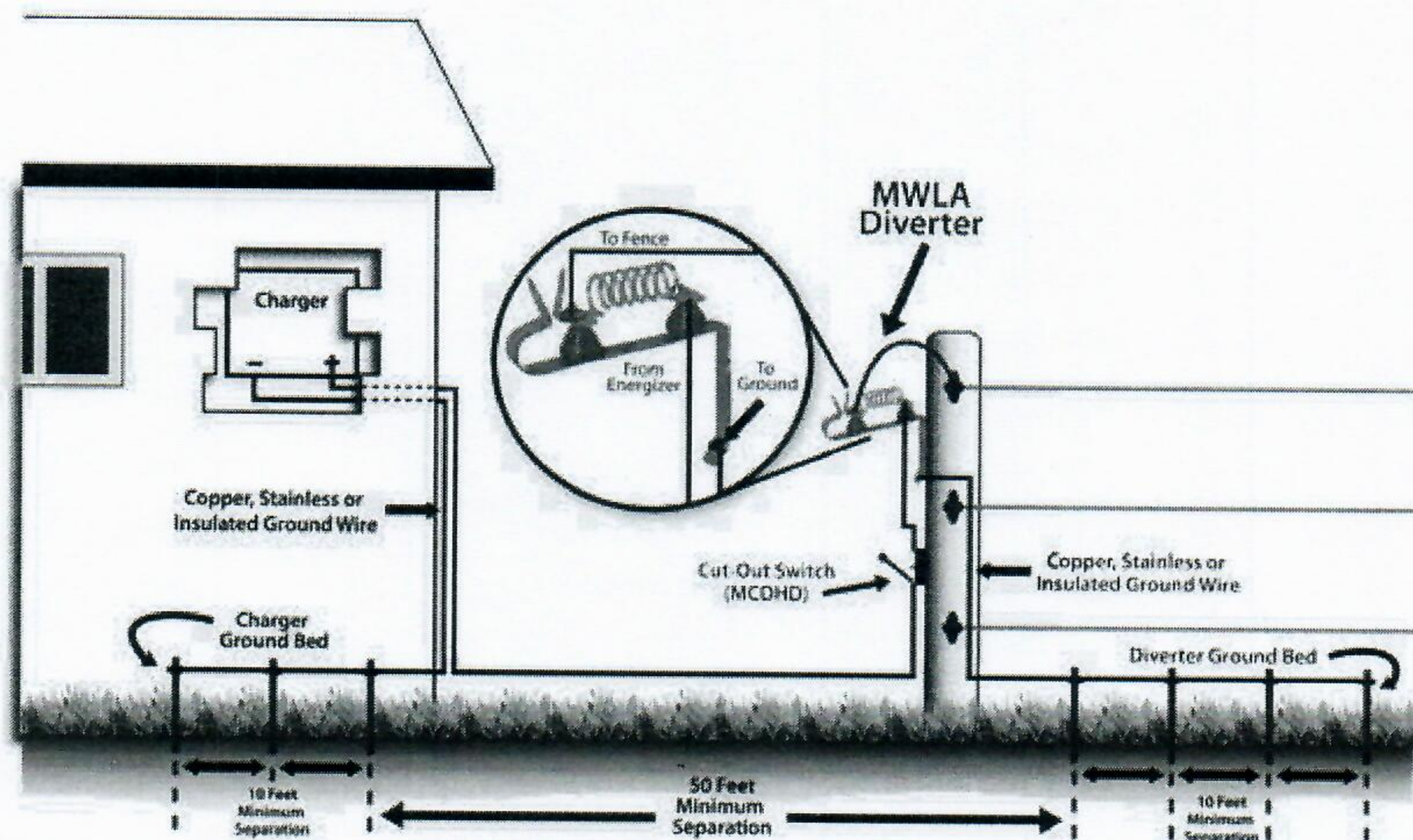
- 4) **Double Insulated Cable:** voltage resistant up to 20,000 volts, galvanized steel wire core, can be used above ground or underground, ideal for power supply at gates, suitable for distances over 100m.



5) Lightning Diverter Arrester:-



Lightning Diverter



The diverter ground bed **must** have more ground rods than the energizer ground bed. Proper Installation of your lightning diverter is essential to its operation in the event of a lightning strike on the fence line.

For best Results:

- Install the lightning diverter close to the fence charger (minimum 50 ft between beds)
- The easiest way to install a diverter is to use a cutout switch on the electric lead-out wire close to the where you will be installing the diverter. This makes adjustment easier.
- If installing the fence leave enough wire after crimping around the end or corner post to pass through the diverter and connect to choke coil. Otherwise use a Split Bolt Line Tap to connect to the main fence line.

- The diverter ground bed and charger ground bed should be separated by at least 50 feet.
- Mount the diverter between the charger and any fence connections