



# DECENTRALIZED GREEN ENERGY DEVELOPMENT PROJECT-KO JAKO RA'ANI GIMIN SEGIMIN KI'TAP

Institute of Natural Resources,  
Meghalaya (INR)-ni  
a'bachengatgipa aro National Bank  
for Agriculture and Rural  
Development (NABARD)

Green Energy Mission





## 1. GREEN ENERGY:

Green energy ian a-gilsakni ong-telaigipa cholrang ba natural resources-oniko altuae bikotna man-gipa ong-a. Iako rongtalgipa Energy ba bijoli ine minga. Iani ortoara environment-na mamingba gimaaniko ong-atgija iako bikotanio green house gas-rangko ong-katatja aro a-ningoniko bikotgipa torang gita dakede global warming ba a-gilsakko ding-ataniona sokatja.

Green energy-ko bikotani cholrangara: Balwa, Geo-thermal, Hydro-power, Solar energy aro Biomass iarangkoba man-chapa. Balwa aro chioniko bikotgipa energy ba bijoliko balwa aro chini il-engaoniko (movement) bikota jeon geo-thermal, biomas, solar energy dakgiparangko ding-atachi bikotskaa. Indakoba iarang pilakan jakkaltogipa bijoliko nakatata aro environment-ko chel-chaka.

Ia ja-del bolchagimin a-gilsako, ia badingna man-gipa green power/energy-na gisiko nangani bilsa 25 mang ong-aha, jekon skanggipa chang to-na mojingjangani ja-man 1970 bijatchijoloni a-bachengaha. Jedakgipa electricity ba bijolikon man-taitaina ba man-jringna am-gipa cholchi bikota, ukon "green" ine minga mina ianoni mamingdake greenhouse gas wal-ku ong-katja. To-o pangchakaniko komiatna gita a-ningniko bikotgipa torangni palo iako jakkalskana gita ia green power-na 1970 aro 1980 bilsa jolrangoni gisiko nangani batbaaha. Da-ode miksangani ba nisan apalbataha: CO<sub>2</sub> -ni wal-ku ong-atako komiatna (jeon global warming/a-gilsakni ding-anina ding-gipa balwako ong-atbata) je ding-gipa balwarangkon a-ningni torangko so-achi aro buring bolgrimrangko porongatanichi ong-ata.

## 2. MEGHALAYAO GREEN ENERGYNI OBOSTA:

Buring bolgrimrang 70% dongani gimin aro mikka jimgipa biap ong-ani gimin Meghalayana iandakgipa project-rangna namen neng-beani ong-a, a-dokna komibeoba 610MW bijoliko nanga, jeon da-omitingo Meghalaya Power Generation Corporation Limited 354.7MW bijolikoson nakatatna man-engkua. Unigimin an-tangon pangchakna man-gipa ong-na gita, ia decentralized renewable energy source cholkon a-doko bijoli chu-onggijaniko kolgapatna minga chol dake baseaha.

## 3. GREEN ENERGY MISSION/GREEN ENERGYNA RE-MIKKANGANI:

Energy/bijoliara pilak sectors ba a-barangnan mongsonggipa kamko ka-a aro pilak namroro silroroani kamrangko ka-anio nangchaptelgipa ong-a. Indake dingtang dingtang namroro silroroatani a-barangko kam ka-anio pangchakanirang, jedake chi, sana banana, lekk poraiani, me-a- me-chik gama ge-ani manderangni janggi tangani, iarang pilakon ia energy sector ba bijolini a-ba tongtong ba donmitapao (directly or indirectly) nangchaktelaia. Ia energy-

ko tangkamatna, bikottaitaina aro environment baksa meli-ma-gape rakkina ian ia energy-na mongsonggipa ong-a jedakode Millennium Developmental Goals (MDGs)-ni nisan kaaniko chu-sokatna aro Climate Change ba climate-ko ding-atgipa wal-ku ong-atanirangko chel-atna man-gen. Minggipinara, uamango gnganggipa cholrangko maikae jakkalenba maikae nambatatna nangnika ian bidingo songna aro gittimni manderangna bilko on-a, jenan Sorkari mongsonggipa ong-e kamko ka-a ba dakchakaniko on-a. Bilsokgimim a-songorango manderangna chu-gimik biko on-anide namen rakgipade ong-a. Indakgipa ja-kurangko de-anichi namgija obostaona sokangaoni an-pilatna gita song ba gittimna dakchakaniko on-a, global market ba a-gilsakni bajarrango mikkangchakna nanganio krenchakna uamangna bilko on-a mongsongbate uamangna nambata janggi tanganio tangpana gita dakchakaniko on-a

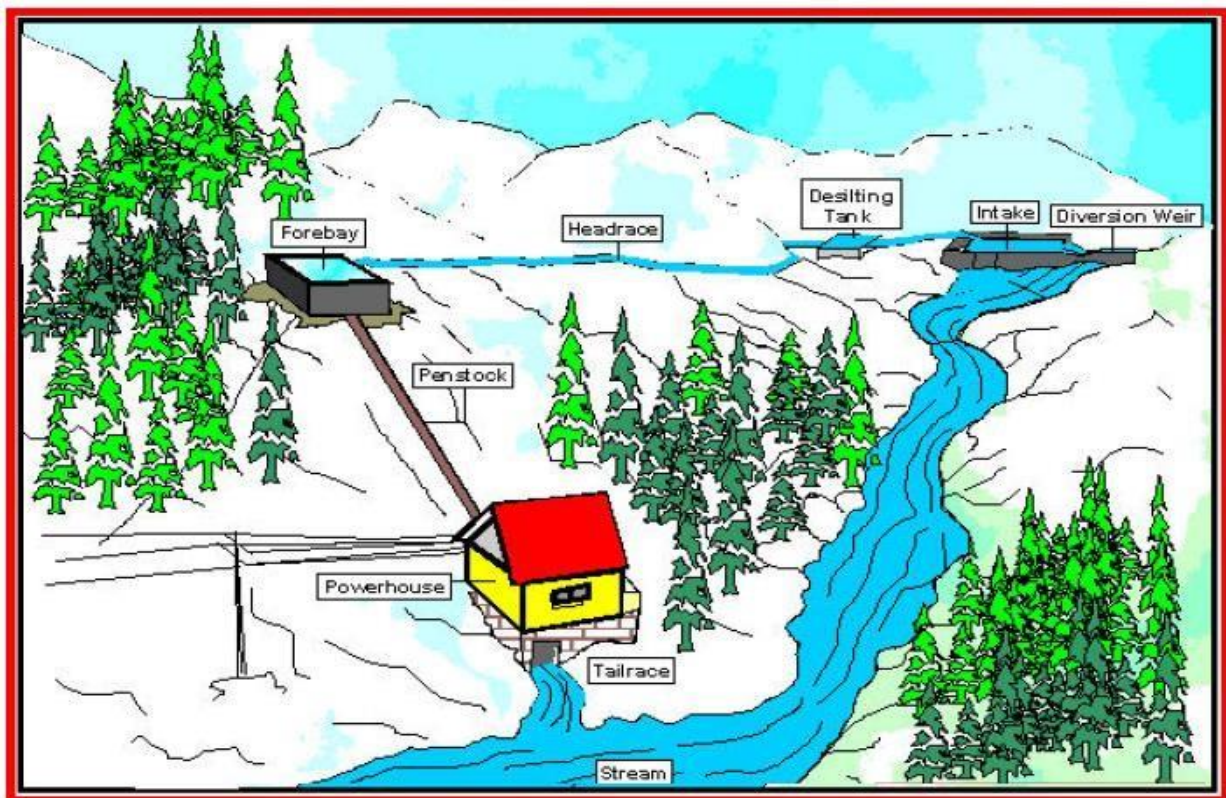
Jakkaltaitaina man-gipa enery ba bijoliko man-ani cholrang ta-raken jakkale bon-angengon, bijoliko nanganirangba bang-batrooenga, unomitingo iandakgipa energy power system ba bijolini gimin mikkangchina mamingkoba agansona man-ja. Ian a-gilsak gimiko namroro siloroani a-bako ja-donggaatgen, apsandake da-ogita bijoli bikotani aro jakkalani cholrangkoba. Ia indakgipa bijolirangkode diltuao aro buring bolgrim jangchirango donggipa songranganade bijoliko sringe sokatangani maming cholan dongja. Indakgipa songrango rongtalgipa cooking fuel ba song-na ritna gita jakkalgipa to ba gas-ko man-jani a-sen mongsongbate me-chikma aro bi-sarang rang-sitanio neng-nikatgipa aro gipin sabisirangko man-na altubatenga. Meghalaya Sorkari, a-doko tangkamgipa bijolirangko man-na gita batanggimin adita bilsirangna skango adita project-rangko a-bachengataha. Unigimin a-dokni chonchonggipa song ba gittimrangna bijolirangko sale on-na man-na gita sorkari project-rangko a-bachengatengaha.

Chonchonggipa chibima aro chiringrangko jakkalna man-gipa hajal songrang Meghalayao donga. Ia chibimarang, a-doko bijoli nanganirangko on-na gita tangkamgipa hydropower-rangko bikotna bil gngang. Pico hydro generator-ni mission, ia songrango stand-alone ba ge-san dake tarigipa micro-hydro power generation system-rangko a-bachengataha, jeon manderangna nambata janggi tangani cholrangko on-na gita uamangni nanga gita bijolirangko on-enga. Bio-diversity-ko aro mongsonggipa ecosystem service-rangko ripingna aro apsan somoion bijolirango chu-onga gita man-atani gimin manderangna ma-siate on-na aro uamangko bil gngangatna gita MBDA miksongenga. MBDA-ni jotton ka-anichi Rongtalgipa aro Green Energy, chonggipa ong-oba Salgro Salaramni Himalayan a-dokko a-gilsako ding-ani batoroona sokanganiko dakchakgen, maina ian skang salrangoni dakrongbaenggipa a-ningoniko bikotgipa torango pangchakaniko chel-ata.



#### 4. PICO HYDRO POWER-NI GREEN ENERGY:

Pico hydro ian ge-sa hydro power ong-a jeonikon batbeaha 5 kilowatt bijolirangkosan ong-katatna man-a. Ia Hydro power system-ko, gipin dal-kalbatgipa hydro power gita dalgija chonbata bimango design ka-enba tariskaa ba songskaa. Ia Pico hydro technology-ko adita somoirangna skang gital dake taridapanio, ian mingsa bijoliko man-dapani chol dake ong-a, aroba a-gilsakni mitam kangalbatsranggipa aro diltubatgipa biaprangnaba namgni ong-aha. Aro ian altuagipa aro jitna man-gipa bijolini chol ong-a.



**CHONGIPA HYDRO POWER-KO BIKOTANIKO TARIE MESOKATANI**

#### 5. MEGHALAYAO DECENTRALISED GREEN ENERGY DEVELOPMENT-KO JAKKALANINA DAKSOANIRANG:

**PROJECT-NI BIMING:** Decentralized Green Energy Development Mission, “Hydro aro Generator”, ba Hydro Generator/Pico Turbine-ko jakkalenga. Decentralized Green Energy Project Mission-ni miksanganiara, Environment aro Green Energy nambatatna ba ripingna ong-a. Green Energy, ian jekon Mandeni janggi tanganina gapatgimin a-gilsakni ong-telagiparangoni jedake salni ching-a, balwa, mikka, chipakkore aro aro a-ani ding-aoniko bikotgipa energy ba bijoli ong-a. Ia renewable energy ba man-taitaina amgipa energy/bijoli mongsongbate mingbri a-barangna jakkalna man-a: bijoliko ching-atna, ba aro chiko ding-atna/ka-sinatna, ra-ruraani/re-ruraanina aro songadamo (jinmani jakkalanina ong-gija)

bijoli chingatna. Pilak kamaiani cholrangna ong-nasipile bijoliko nangaia. Indake dal-a chona jeba bading chiwalanio ong-chong ia Green Energy-o ga-chatna man-enga ong-ode, ian uamangna aro environment-na namgniko on-anggen. Minggipinara ecosystem service-rang mandeni janggi tanganina janggi tangani cholrangko nadapata.

#### **PROJECT-NI MIKSONGANIRANG:**

- i) Songko nokko bilakatna aro green-energyko jakkalani aro uni namgnirangko ma-siate on-na.
- ii) Tangkamgipa, man-taitaina amgipa aro environment baksa meli-ma-gipa bijoliko bikotna aro ian Millennium Developmental Goals (MDGs) aro Climate Change-ni obostarangko dingtangatna gita nisan ka-gipako chu-sokatna daksamsoani ong-a.
- iii) Me-chikma aro bi-sarangni rake kam ka-na nanganiko komiatna gita ringani chirangko nokni sepango man-atna.
- iv) Nokrangona bijoliko sokate, ringani chirangko sale on-e aro a-barangona chirangko sale on-enba janggi tangani gadangko tang-doatna.
- v) Iarangna agreba Cottage Based Industrial Units ba noko chalaigipa welding ba sil tariani, rice mills ba mi su-ani, cha-ani tariani ugita dakgipa karkanarangko bilakatna.
- vi) Nokte a-te ba chel-tange donggipa songrango micro-hydro power generation systems-ko donenba uamangna chu-onga gita bijoliko on-e uamangni janggi tanganiko nambatna.
- vii) Catchment area ba chiamik donggipa biaprangko chel-chakenba chiring aro chibimarangni jokaniko tik ong-atna.
- viii) Chiring aro Chibimarangni Eco Systemko nambatna aro ringani chirangko tik ong-atna, a-barangona, jila alaniko dakgipa biaprangona chi sokatna, uarangna agreba bijoliko nakatatna aqua-tourism-ko nambatna.

#### **MAN-NA KRAGIPA SONGRANG:**

Hydro generator Mission-ni skanggipa miksonganiara, A-dokni dam 11 district-ni ning-o donggipa diltuao, kona noksaik dakao donggipa, re-na dona jakgitel ong-gijagipa ba bijolirangko sale on-kugijagipa songrangna bijolirangko sale on-na, jedakgipa songrangan maming MeECL ba ma-mong sorkarini gita bijoli sale on-na a-bachengatgipa scheme-ni ning-o bak man-ja. Ia hydro generator/Pico Turbine-chi bikotgipa bijoliko jakkalna gita skanggipa miksonganide uan Eco Tourism Village-na, gittimni ramarangko bijoli ching-atna, nokrango chalaigipa karkanarangna bijoliko on-na, chi saldona ugitarangna.

**PROJECT-NI BIAPRANG : A-dokni dam 11 district-rango**

**BADITA SONGKO MAN-A : Dam 220**

**PROJECT-NI SOMOI : BILSI 2**

**PROJECT-KO JAKO RA-GIPA AGENCY: INSTITUTE OF NATURAL RESOURCES, MBDA**

**PROJECT-NI KAMRANG** : 1. Jakkalna aro chalaiani bidingo Barefoot Engineer-rangna aro Village Energy Committee-na changa sapanirangko skie on-ani

2. Weir, Forebay aro Penstock-ko rikani/tariani

3. Hydroger, Power House aro Transmission-ko songani

4. Rama/Noko chingatani; Noko chalaigipa karkanarangna bijoli sale on-anirang.

**PROJECT-KO JAKO RA-NA TIK KA-GIMINRANG:**

**STATE PROJECT MANAGEMENT UNIT:**

SPMU level ba gadango, Resources-ni Director Project-ko sokotong ong-e chalaidilgen, jenan MBDA-ni sakgni 2 Technical Expert-rang, Khasi Hills-oni saksa aro Garo Hills-oni saksa, Technical Assistant aro Field Assistant-rang baksa dakrimaniko on-gen. **SPMU** salantian project-o bakrimaniko on-gen.

**PMU-ni Kamrang aro Daitorang:**

- Project-ko chalaianio gisikchi aro kamrangchi agane dakchakaniko on-a aroba pilak kamrangko nirokenba chong-motgipa/tik ong-gipa cholrangko mesoke on-na.
- Training ba skie on-ani/Changa sapaniko skie on-ani aro gipin biaprangona re-e nidilaniko dakna.
- Green Energy-ko bikotna gita nanggipa Technology-rangko man-dilna.

**DISTRICT IMPLEMENTATION UNIT ARO BLOCK IMPLEMENTATION UNIT:**

DPM-ni, Nodal Officer aro Field Engineer-rangni dakchakanio DC aro BDO-rangan iano paltangtang gita Skotongrang ong-a.

### **BDU-rangni Kamrang aro Daitorang:**

- Bakrimani, nirokani aro kobor on·ani.
- VEC-rangko Social Agreement aro VEC-ni Resolution-o soi ka·atna aro dingtang dingtang Sorkarini line Department-rangni ning·o MGNREGS aro Sorkari Scheme-rang gita dakgipa gipin gipin programrang baksa bakrimatna.
- VEC-rangko bilakatreroatna, VEC profile-ko tik ong·e rakkiatna aro uamangna changimin tangka paisarangko man·atna gita Utilization certificate-rangko man·ate on·a.

### **VILLAGE IMPLEMENTATION UNIT:**

Village level ba songni gadango, Village Employment Council (jekon Village Energy Committees – VEC-rang ine mingskaa)-ko songna nanga jean project-ni chu·sokanina daito ra·e kamrangko ka·gen. Iano songni volunteer-rangko man·chapgen – 2 songprakni sakgni kae.

### **Village Community-ni kamrang aro daitorang:**

- Village/Songni authority project-ko nokgipa dake daito ra·gen.
- Project-ko baditana tarina am·engachim, uni kri project-ko jako ra·na gita biaprangko songni authority nina nanga. Project-ko chalaina manchigimin gitan bia bichamba ong·na nanga.
- Songni nokni a·ako man·ja ong·ode, jakkalnasienggipa a·a, songni ba dolsa manderangni a·kanggimin ong·na nanggen.
- Project-na gittimni dakchakgiparangna cholko on·gen, jeon bosturangko on·gilani aro kamrango dakchakaniba ong·gen, uarangko namedake see rakkina nanggen.
- Partnership Deeds/ Social Agreement-o soi ka·aniko altuaatna.DPR/PCN-ni kamrang gita project-ni kamrangko jako ra·na
- Ia Project-ko mingsa Social Enterprise Mode-o jako ra·gen. Project-oniko jedakgipa lap man·anikoba Village Energy Committee-o joma ka·gen. Social Capital, ugitarangoniko project-ko nirokani aro chalaiani bidingo songni manderang baksa Village Authority damsan chanchie tik ka·gen.
- Mesokatenggipa kamrangko chu·sokatna gita 70% me·asa aro 30% me·chikrangko man·chapatenba songni nokni manderang, dolsa Village Energy Committee-ko songgen:
  - i. Project-ko chu·soke chalaina man·na gita songni manderangni didianiko on·gen aro aro gisiko nangatgen.
  - ii. Project matchotani ja·man uko nirokna aro chalaina Corpus fund-ko rakkigen.



- iii. VEC-ni tik tik ka·gimin dam gita Bijoli Jakkalgiparangoniko jaantini fee-rangko ragen.
- iv. Project-ko chalaina aro nirokna gita operators ba chalaigiparangko,ugitarangko rakkigen aro operator/chalaigipana japraako badita on·gen uko tik ka·gen.
- v. Chimonggimin Net Benefit-ni 20% -ko, songni seokgimin Social Development-ni kamrangna jakkalgen/botgen.
- vi. Committee, project-na dingtangmancha ge·sa Bank Account-ko kuligen.
- vii. Man·gipa bijolirangchi Agri-Enterprise-rangko tang·doatna.

**PROJECT-NA BAKRIMANI:**

Micro Hydel Power Project-rang, Water Resources Multipurpose Reservoirs (MR) Projects, Meghalaya Non-Conventional & Rural Energy Development Agency (MNREDA), National Bank for Agriculture and Rural Development (NABARD), Soil and Water Conservation Department(S&WC) aro State Council of Science Technology and Environment (SCSTE) baksa bakrimanio namen bil gninggipa ong·a aro ia pilak sectors ba a·barango Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)-ba Man Power aro Infrastructure Development ba manderangni bilchi jakchi aro daka rikaniko namdapatania mongsonggipa kamko ka·skagen.

Catchment area ba chi jokbaram biaprangko MLAMP ba Forest aro Environment Department nirokatna man·gen; dongsogimin reservoirs ba chimonggipa biaprango Fishery Department-oni na·tokrangko watna ba jilatna man·gen. Water Resources, Soil aro Water Conservation-ni tangka on·achi jeoba reservoirs ba chi chimonganiko tariatna man·gen unagre MGNREGS-chiba kam ka·atna man·naba donga.

## **(a) CHAMSOANIRANG**

1. Tangka chamanide INR-ni tarigimin gita Community Rates ba community-ni dam tik ka-a gita ong-gen aro iarang pilakan DPR-ni on-gipa tangkaon napangtokgen jedakode Tangkarangko Nangana badepile jakkalani dongjawa.

2. Pico-Turbine-oniko man-gipa bijoliko Village Centre-na aroGittimni gita nirokatenggipa Village Centre-oniko sale on-gipa nokdangrangna ba rama sorokrango ching-atgipa street light-rangnasan on-aigen.

### **HYDRO GENERATOR/PICO TURBINE-RANGKO MAN-ANI:**

A-dokni dam 11 district-ni bijoliko bikotna amnagipa dingtang dingtang biaprango gimik ge 220 Hydro Generator/Pico Turbine-rangko songgen jeonikon ge 200-kode dakatna bil gnunggipa authority-rang on-atgen aro ge 20-ko a-joltangni badinggiparangkoniko ra-gen jemangan Pico Turbine-rangko tarina gita on-gen.

### **TANGKA SOKBAANI CHOLRANG:**

Tik ka-gimin gita Weir, Power House, Penstock-rangko songani aro pipe-rangko donani korosrangna nanggipa tangka paisarangko VEC-rangni paltangtang bank account-rangona SPMU-oni watatgen. Indake ong-genchimoba, Block-tangtangni Field Engineer-rang (MLAMP aro CLLMP dolgni) ba Non-MLAMP aro Non-CLLMP dolgnini Nodal Officer-rang field report-ko SPMU-na on-kuja dipetde VEC-rang tangka bikotna man-jawa, field report-ko on-ani ja-mansa SPMU work order-ko on-gen aro soi ka-gen aro VEC-rang tangka bikotna man-na gita MINR copy-ko Bank-ona watatgen. Kamrangni chu-sokbaenganiko aro cholgnangko name jakkalaniko chu-ongge Nikon tangka paisarangko nangani kri Village Energy Development Fund-ni gita Village Energy Committee-ona sokatgen. Kam ka-giparangna dingtang dingtang traini ba skie on-anirangko dakna change sapaniko on-ani programrangko ong-atani programrangna SPMU tangkarangko rakkigen.

### **TANGKA WATANI/ON-ATANI BEWALRANG:**

- Project-ko a-bachengna gita biap bichamrangko tik ka-mano aroba Village Energy Committee-ko song-ani ja-mano Project-na chamgipa chu-gimik tangkaoniko 50% ko skanggipa instalment-o on-atgen.
- Project-ni tangka gimikni dongspa tangkarangko, gnigipa instalment-o utilization certificate aro project-ni 50% kamrang matchotani photorangko on-eani ja-mano on-atskagen.
- Project-ni chu-gimik korosni 10% koba VEC-rang on-gilgen.
- Project-ni kamrangko 100% matchotatani ja-mano Utilization certificate ba project-na koros ka-ani lekka, pilak Voucher, pilak Bill aro koros-ni copy-rangko nokrik nokdakgipani photorang baksa BDU-na on-na nanggen aro kosako janapbagimin lekkarangni pilak copy-rangkon scan ka-enba, see rakkina man-na gita SPMU, MINR-ona watatgen.

- Original Utilization Certificate-o VEC-ni President aro Secretary seal su-enba soi ka-na nanggen.

Tarigimin format-o gita, jeba matchotgimin kamrangko photorang aro report ugitarang baksa pakwatgen. Green Initiatives-ko dakengon, songni memborrhagna aro dingtang dingtang on-kange kam ka-giparangna changa sapaniko skie on-na gita Agency / Society, Master Trainer-koba skie tarigen.

Agency / Society baksa bakrimgipa darangba MBDA-ni saksa employee dake ong-na man-jawa aro dormaha, man-anirang ba gipin compensation ba gampilskaani dongjawa. Agency/Society-ni pilak chimonggimin data/ nokrik nokdakaniko dakani/ songgimin machine-rangni MBDA nokgipa ong-gen, jodisa ia apsanke MBDA-ni project-ni ning-o chimongode/rikode/ songode.

**5. JINMANI KU-RACHAKANI**

Ia partnership agreement-ko MINR- MBDA, Shillong-ni gisepo dakaha, jekon Bishop Cotton Road, Shillong – 793001-o uni skotong office-ko donenba 2019 bilsio Society Act of 1983-ni ning-o a-bachengaha, jekon Director-chi skotong ong-e re-dilenga.

aro

.....Songko uamangni Headman-chi dilenga, Shri  
 .....-ni Depante P.O  
 ..... Block ..... District .....  
 State.....

**Niamrangko bikote mesokani:**

**Project-ko jako ra-gipa Agency-ni Kamrang aro Daitorang:-**

1. Nokrango bijolirangko ching-atna gita Pico Turbine-rangko songanio songni manderangko bak nangatna gita MINR-MBDA nangrime re-chakkataha. Songo bijoli chu-onga ong-ode hydro generator/Pico Turbine-oni bikotgipa bijolirangko songni/gittimni rama sorokrango ching-atna, nokrango chalaigipa karkana, chi salna ugitarangna jakkalna man-a.
2. MINR-MBDA, Pico-Turbine-rangko man-bana dakchaka.
3. MINR-MBDA, tik ka-grikgimin somoi kakketo Head work-rangko ba Intake structure, power house, transmission line dakgiparangko rikanio technical-ni gita dakchaka aro Pico Turbine-rangko songanio dakchaka.
4. ....-ni .....-ni bank account-ona tangkarangko chipatani bilsisani gisepon project-ko chalaigen.

## **Village Energy Committee(VEC)-ni kamrang aro daitorang:-**

1. Pico Turbine-ko songna gita VEC-rangna chamatgipa tangka paisarangko work order-o Chamgimin gita kamrangna simsake jakkalgen.
2. Project-ni 10%-ni gitade komibeoba songni/gittimni manderang dakchakgen aro uan bosturangchi aro bilni jakni kamrangchi ong-gen aro uarangko namedake see rakkigen.
3. VEC, account book ba bohirangko namedake rakkigen aro tangka paisarangko BDU-ni through ba BDU-ni gita chamatode voucher-rang baksa Utilization Certificate-rangko BDU-na on-na nanggen, indiba MINR-MBDA-ni gita chamatode MINR, MBDA-na on-skana nanggen.
- 4.VEC, MINR-MBDA-ni gita ong-atgipa pilak Training and Capacity Building Program-rangon bakko ra-gen.
5. Project-ko chalaingipa aro nirokngipa Village Energy Facilitator-ko VEC joltangni chadamberangoniko tik ka-gen, jedakgipa mandean Electrical works ba kamrangni bidingo u-i-ma-saini gnang.
6. Project-ni on-timinti nosto ong-arangko tari tilongna man-na gita bijoli jakkalgiparangoniko tangka ra-enba VEC dingtangmancha mingsa Corpus Fund-ko dakgen unagreba Village Energy Facilitator-rangna honorarium-ko on-gen.
7. Pico Turbine Unit-ko chalaiani aro nirokani bidingo daksogiminrangko namen ma-siata aro ku-rachake ra-a.
8. VEC, project-ni daitoko ra-a aro nokgipa ong-e ra-a.
9. Unit-oniko bikotna on-gimin bilna bate bijolirangko bikotadapjana gita VEC ku-rachaka, jedakode dugapile bijoli bikotani a-sen kenchakgniona sokjawa aro namen mikrakna aro kenchakgnigipa a-selrangko gelna ku-rachakagni gnang.
10. Project-ni a-sel maiba maijaba ong-aona VEC mingsa Insurance Policy –ko dongen.

### **Tik ka-grikgimin somoio:**

Dolgni party-rangni soi ka-ani ja-mano ia tik ka-grikgimin ba ku-rachakgrikgimin somoi .....oni .....ona skanggipa bilsisana choligipa ong-gen, uni ja-mande ia apsan ku-rachakgrikgiminko gital dakangtaina man-gen, chu-sokjaode MINR-MBDA dakchakaniko ra-pilgen. Dolgni party-rangni tik ka-gimino pangchake ia ku-rachakgrikgiminko je somoioba nangnikani kri gital daktaina aro nipiltaina man-gen.

## 6. JAKO RA·ANI

Ia pilak niamrangara, RIDF XXIV-ni ning-o NABARD-ni dakchakatgipa INR, Meghalaya, Shillong-ni jako ra-gipa Decentralized Green Energy Development Project-ko jako ra-na gita Village Energy Committee (VEC)-ni memborryngni ku-cholsan tarigiminrang ong-a:-

- 1.Chinga VEC memborryng, Pico-Turbine-ko songna gita chingna chamatgipa tangka paisarangko Tik ka-e chamsoa gitan jakkalaha.
- 2.Chinga VEC memborryng, bosturangchi aro bilni jakni kamrangchi 10% ko on-gilaha aro iarang pilakkon see jote rakkiaha.
- 3.Chinga VEC memborryng, account bohirangko rakkigen aro Utilization Certificate-rangko voucher-rang baksa BDU-na on-gen, uamangni gita tangkarangko chamata ong-ode, indibaMINR-MBDA-ni gita chamata ong-ode MINR, MBDA-na on-skagen.
- 4.Chinga VEC memborryng, MINR-MBDA-ni gita ong-atgipa pilak Training aro Capacity Building Program-rangon bakko ra-gen.
- 5.Chinga VEC memborryng, Project-ko chalaina aro on-timinti nosto ong-giparangko tarina gita bijoli jakkalgiparagoniko tangka ra-enba mingsa Corpus Fund-ko dakgen unagreba Village Energy Facilitator-rangna honorarium-ko on-gen.
- 6.Chinga VEC memborryng, Pico Turbine Unit-ko chalaiani aro nirokna tarigimin Guidelines ba daksogiminrangko ma-siaha aro jarikna ku-rachaka.
- 7.Chinga VEC memborryng, ia project-ko chu-gimik nokgipa ong-e daitoko ra-gen.
- 8.Chinga key operators ba mongsonggipa chalaigiparang skie ra-aha aro niksamsogijagipa obostarangko mikkangchakna taria, jean Unit-ko ramram dake chalaianirangko ja-donggaatnaba donga.
- 9.Generating unit ba bijoli bikotenggipa unit-oniko badita bijolirangko nakatatna man-a uko VEC memborryng ma-siaha aro on-gimin bilna agrede bijoliko bikotjana ku-rachaka, jean dugapile bikotode ba jakklaode kenchakanirang sokbanaba donga aro maiba a-sel ong-gnirangko gelna namen mikraksoa.
10. Songani aro a-bachengatani somoi ja-mano Unit-ko chalaiani obostarangko VEC ma-siaha jeon Hydro unit-ko simsak nirokani aro chalaianina song ba gittimni gisepo uamang tangka paisarangko chimonggen.
11. Project-o maiba maijaba a-sel apotrang ong-aona chinga VEC memborryng mingsa Insurance Policy-ko dongen.
12. Chinga VEC memborryng, Project-ko chalaina aro nirokna joltangni chadamberangonikon Village Energy Facilitator-ona seokgen, mongsongbate Electrical work ba kamrangni gimin u-i-ma-sigipako aro nangchongmotgipa cholrangko dakna changgiparagoniko.

13. Tik ka-gimin Operators/Chalaigiparang ka-mao mesokatenggipa gita:-

- a.
- b.
- c.
- d.

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VEC Chairman

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VEC Secretary



## 1. GREEN ENERGY:

Green energy ian a-gilsakni ong-telaigipa cholrang ba natural resources-oniko altuae bikotna man-gipa ong-a. Iako rongtalgipa Energy ba bijoli ine minga. Iani ortoara environment-na mamingba gimaaniko ong-atgija iako bikotanio green house gas-rangko ong-katatja aro a-ningoniko bikotgipa torang gita dakede global warming ba a-gilsakko ding-ataniona sokatja.

Green energy-ko bikotani cholrangara: Balwa, Geo-thermal, Hydro-power, Solar energy aro Biomass iarangkoba man-chapa. Balwa aro chioniko bikotgipa energy ba bijoliko balwa aro chini il-engaoniko (movement) bikota jeon geo-thermal, biomas, solar energy dakgiparangko ding-atachi bikotskaa. Indakoba iarang pilakan jakkaltogipa bijoliko nakatata aro environment-ko chel-chaka.

Ia ja-del bolchagimin a-gilsako, ia badingna man-gipa green power/energy-na gisiko nangani bilsa 25 mang ong-aha, jekon skanggipa chang to-na mojingjangani ja-man 1970 bijatchijoloni a-bachengaha. Jedakgipa electricity ba bijolikon man-taitaina ba man-jringna am-gipa cholchi bikota, ukon "green" ine minga mina ianoni mamingdake greenhouse gas wal-ku ong-katja. To-o pangchakaniko komiatna gita a-ningniko bikotgipa torangni palo iako jakkalskana gita ia green power-na 1970 aro 1980 bilsa jolrangoni gisiko nangani batbaaha. Da-ode miksongani ba nisan apalbataha: CO<sub>2</sub> -ni wal-ku ong-atako komiatna (jeon global warming/a-gilsakni ding-anina ding-gipa balwako ong-atbata) je ding-gipa balwarangkon a-ningni torangko so-achi aro buring bolgrimrangko porongatanichi ong-ata.

## 2. MEGHALAYAO GREEN ENERGYNI OBOSTA:

Buring bolgrimrang 70% dongani gimin aro mikka jimgipa biap ong-ani gimin Meghalayana iandakgipa project-rangna namen neng-beani ong-a, a-dokna komibeoba 610MW bijoliko nanga, jeon da-omitingo Meghalaya Power Generation Corporation Limited 354.7MW bijolikoson nakatatna man-engkua. Unigimin an-tangon pangchakna man-gipa ong-na gita, ia decentralized renewable energy source cholkon a-doko bijoli chu-onggijaniko kolgapatna minga chol dake baseaha.

## 3. GREEN ENERGY MISSION/GREEN ENERGYNA RE-MIKKANGANI:

Energy/bijoliara pilak sectors ba a-barangnan mongsonggipa kamko ka-a aro pilak namroro silroroani kamrangko ka-anio nangchaptelgipa ong-a. Indake dingtang dingtang namroro silroroatani a-barangko kam ka-anio pangchakanirang, jedake chi, sana banana, lekk poraiani, me-a- me-chik gama ge-ani manderangni janggi tangani, iarang pilakon ia energy sector ba bijolini a-ba tongtong ba donmitapao (directly or indirectly) nangchaktelaia. Ia energy-



