

## **Jyngbatai lyngkot Shaphang ka ESIA**

### **Ka Jingbishar Bniah ia ka Jingtah ha ka Mariang bad ka Imlang Sahlang**

**Pynkynmaw ia ka Road Dkhiah – Sutnga – Saipung – Pala sha Semmasi (0 – 64.00  
Km) na ka bynta ka Meghalaya Logistics and Connectivity Improvement Project  
(MLCIP), kaba la buh lyngba ka World Bank**

**Meghalaya Logistics and Connectivity Improvement Project (MLCIP)**

**La ai shakhmat ia:**



**Meghalaya Infrastructure Development Finance Corporation (MIDFC) Ltd.  
House No. L/A-56, Lower Nongrim Hills, Top Floor,  
Meghalaya Basin Development Authority (MBDA) Building,  
Shillong East Khasi Hills, Meghalaya-793003**

## **Jyngbatai lyngkot Shaphang ka ESIA**

### **Lamphrang shaphang ka project**

Ka Meghalaya Logistics and Connectivity Improvement Project (MLCIP) ka thmu ban: a) pynbha ïa ka jingïadei bad jingïakynduh sha ki jaka kiew jingïoh jingïap kam kiba kongsan ha ki surok ba la ithuh;

b) pynbha ïa ki jingtei bad ki jingshakri logistics ha ki shnong bad ha ka distrik;

c) ai jingïoh lad kham bun sha ki ïew ki hat bad pynhiar ïa ka jinglut bad ka por jingïaid na bynta ki katto katne ki mar rep bad ki mar soh; bad

d) pynkhlaïñ ïa ka jinglah jong ki jaka treikam (institutional capacity) na bynta ka jingïaid jingïeng bad logistics kaba khlain ïa ka mariang bad kaba ïaid beit ha East Meghalaya.

Ka surok ba la tyrwa ka la don lypa shuwa ka jingthaw ïa ka jylla Meghalaya bad ka Right of Way (RoW) ka long haduh tang sha ka drain ba la don lypa. Ka DSSPS project road ba la tyrwa ka don ka jingjrong kaba 64 km, ka sdang na Dkhiah ha ka chainage 0+000 bad ka poi haduh Semmasi ha ka chainage 64+00, ha kaba ka surok project ka kut.

### **Regulatory Compliance**

Ka ESIA ka bud ryntih ïa kine ki kyndon:

\* World Bank Environmental and Social Framework (ESF)

\* Environmental and Social Standards (ESS 1–10)

\* Ki aiñ mariang jong ka Sorkar India bad ka Sorkar Meghalaya

\* Ki aiñ shaphang ka kam nongtrei, khlaw, jingïada ïa ka jingthaw mariang (biodiversity), bad ka jingpynneh ïa ka jingïkhuid jong ka mariang (pollution control)

### **Project Implementation Schedule**

Katkum ki kyndon bad ki jingïateh ba la buh, ka MPWD kan ai ïa ka contract jingïatei (civil works) sha u contractor uba biang ban shim bynta. U contractor un thied ïa ki mar jingïatei kiba bha bad kiba biang na ki jaka ba la ai bor bad na ki manufacturer ba la mynjur. Ki tiar jingïatei (equipment) kiba bud ïa ki standard ba la buh dei ban pyndonkam ha baroh ka por jingïatei. U contractor un wanrah ïa ki nongtrei katkum ka jingïaid por jong ka jingïatei. Ka por jingïatei na bynta ka bynta surok kaba jrong 64 km la thmu ban long 48 bnai.

## Baseline Environment

Ki dewbilat ha ka corridor surok ki long sandy loam, kiba suk ban mih um bad kiba kham acidic, kaba long katkum ka jinglong jong ka jaka kaba don jingïap um jur.

Ka jinglong jong ka um ka long kaba khuid, khlem jingïap kam, ka don pH kaba jingïadei, dissolved oxygen kaba biang, turbidity kaba rit (lait noh ha ka por slap), bad BOD/COD kaba rit. Ym don jingïap kam industrial lane jingïap jingïaid rep paidbah kaba ktah ïa ki um. Ha ka jingïatylli, ka um poh khyndew bad ka um sla khyndew (surface water) ka dang bit ban pyndonkam na bynta ki jingdonkam paidbah hadien ka jingïap jingïaid rit.

Ka jinglong jong ka sur jingïap jingïoh (noise) ka long kaba jar jar haduh kaba rit jingïap jingïoh, katkum ka jinglong shnong. Ki baseline noise level ki hap hapoh ki kyndon CPCB na bynta ki jaka shnong bad jaka nongkyndong ha ka sngi bad ha ka miet ha bun ki jaka.

Ka corridor surok project ka don ïa ka jingïkhuid lyer kaba bha haduh kaba rit, kaba long ka jingïadei jong ka nongkyndong Meghalaya kaba khlem jingïap kam industrial bun. Ki jingïap jingïoh PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub> bad CO ki hap hapoh ki National Ambient Air Quality Standards (NAAQS).

## Environment and Social Impacts

Ka Environment Screening jong ka corridor surok ba la tyrwa ka la ithuh ïa ki jaka ba jingïap jingïoh jingïada bad ki mar shnong paidbah ha ka alignment. Kine ki kynthup ïa ki monolith ha ki chainage Ch 01+700, Ch 10+800 bad Ch 11+600; ki jaka niam bad riti dustur kum ki saw tylli ki balang (Ch 10+250 RHS, Ch 24+200 RHS, Ch 40+600 RHS & Ch 42+700 LHS); ka Community Pillar (Ch 03+600) bad ki krem kum ka Krem Lambit (22+500); bad ki jaka pule kum ki lai tylli ki skul (Ch 05+800 LHS, Ch 10+800 RHS & Ch 13+500 LHS). La lap ruh ïa ka jaka paidbah kaba kyntang (Community Sacred Site) ha 10+800 bad ar tylli ki shnong shnong (community ponds) ha Ch 10+950 bad Ch 30+440.

La tyrwa ïa ki lad jingïada (mitigation measures) kiba biang ban pynhiar ïa ki jingktah sniew bad ban pynthikna ïa ka jingïaid beit jong ka project. Kine ki jingïohi bad ki jingai jingmut ba jingïadei la lum jingïatip ha ka table kaba bud.

| CH No.    | Jait jingïing / jingïatei | Jngai na Centre Line | Ki Lad jingïada ba la tyrwa                                                                              |
|-----------|---------------------------|----------------------|----------------------------------------------------------------------------------------------------------|
| 0+015 RHS | Dkhiah Community Hall     | 6 m                  | U drain yn pynneh bad pynbha ban pynthikna ka jingïaid um kaba beit bad ban khanglad ïa ka jingshlei um. |

|            |                          |        |                                                                                                                                           |
|------------|--------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 01+700 LHS | Monolith                 | 10 m   | Ym lah ban buh ĩa kino kino ki construction camp hapoh 100 m ha baroh ar liang jong u monolith. Ki lad pynitynnad kin sa la tyrwa.        |
| 05+800 LHS | Skul                     | 6.5 m  | U drain yn pynneh bad pynbha, railing bad signage na bynta ka jingshngaiñ. TBM, rumble strip ne table-top crossing kin lah ban pyndonkam. |
| 08+350 LHS | Sutnga CHC               | 8.9 m  | Ka surok shnong yn pynhiar haduh ka kyrdan surok ba don mynta. Ka junction yn pynbha.                                                     |
| 10+250 RHS | Presbyterian Church      | 4.10 m | U drain yn pynbha bad ym don jingktah kaba sniew.                                                                                         |
| 10+800 RHS | LP School                | 4.5 m  | Ki lad jingĭada, barrier, signage, jingĭada dhur bad jingĭap jingnoise kin pynbiang ban pynthikna ka jingshngaiñ.                         |
| 10+800 RHS | Monolith                 | 4.5 m  | Ym lah ban buh construction camp hapoh 100 m. Ki lad pynitynnad kin sa la tyrwa.                                                          |
| 12+700 RHS | Community Sub Centre     | 10 m   | Ki lad jingĭada kin pynbiang ban khanglad ĩa kano kano ka jingktah.                                                                       |
| 10+950 LHS | Community Fish Pond      | 20 m   | Ki lad jingĭada kin pynbiang ban khanglad ĩa kano kano ka jingktah.                                                                       |
| 10+800 RHS | Community Sacred Site    | 6.5 m  | Ym lah ban buh construction camp hapoh 100 m. Ki lad pynitynnad kin sa la tyrwa.                                                          |
| 11+600 LHS | Monolith                 | 25 m   | Ym lah ban buh construction camp hapoh 100 m. Ki lad pynitynnad kin sa la tyrwa.                                                          |
| 13+500 LHS | Latyrke Secondary School | 6 m    | Ki lad jingĭada kin pynbiang ban khanglad ĩa kano kano ka jingktah ĩa ka skul bad ban pynthikna ka jingshngaiñ.                           |
| 13+550 LHS | Water Tank               | 4 m    | Ki lad jingĭada kin pynbiang ban khanglad                                                                                                 |

|                  |                                |       |                                                                                        |
|------------------|--------------------------------|-------|----------------------------------------------------------------------------------------|
|                  |                                |       | ïa kano kano ka jingktah.                                                              |
| 13+600 RHS       | Approach Road to Church        | 5 m   | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |
| 22+500 LHS       | Approach to Krem Lambit (Cave) | 20 m  | Ka kam pynbha ïa ka junction kin sa leh.                                               |
| 24+200 RHS       | Khaiddong Church               | 5.5 m | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |
| 30+440 LHS       | Community Pond                 | 25 m  | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |
| 38+100 RHS       | Bamkhosngi Church              | 4.5 m | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |
| 43+400 LHS       | Saipung PHC                    | 6 m   | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |
| 40+600           | Prayer House                   | 12 m  | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |
| 42+700 LHS       | Saipung Church                 | 4 m   | Ka jingpynbha ïa ka balang bad jingïabhah pisa na bynta ki jingpynbha la thmu ban leh. |
| 52+000 LHS       | Water Source                   | 4 m   | U drain bad ki CD structures kin pynbiang ban pynthikna ka jingïaid um slap kaba beit. |
| 58+100 RHS       | Pala SB Centre                 | 25 m  | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |
| 58+100 to 58+200 | Pala (Build-up Area)           | 4 m   | Ka jingïap jingïaid junction ka lah ban leh.                                           |
| 62+950           | Water Storage Unit             | 10 m  | Ki lad jingïada kin pynbiang ban khanglad ïa kano kano ka jingktah.                    |

### Ki Jinglap na ka Social Screening

Ki jinglap na ka social screening la pyni ha ka table hapoh:

**Table: Ki Jinglap na ka Social Screening**

| Sl. No. | CH No.     | Kyrteng Shnong | Jait Jingtei / ĩing       | Jait Jingktah (Impact)                                    | Jngai na Centre Line (m) |
|---------|------------|----------------|---------------------------|-----------------------------------------------------------|--------------------------|
| 1       | 04+276 LHS | Sookilo Market | Dukan khaii               | Compound wall                                             | 5.0                      |
| 2       | 6+244 LHS  | Moopala        | ĩing paidbah              | Compound wall                                             | 4.0                      |
| 3       | 6+282 RHS  | Moopala        | ĩing paidbah              | Compound wall                                             | 5.0                      |
| 4       | 10+100 LHS | Mookympad      | Tank um                   | Jingktah pura (Full Impact)                               | 2.5                      |
| 5       | 16+326 LHS | Umpleng Market | Cement Market – Shop Shed | Jingktah shi bynta (Partially Impacted), Shipor dukan: 22 | 4.5                      |
| 6       | 16+500 RHS | Umpleng Market | Dukan                     | Jingktah shi bynta (Partially Impacted)                   | 4.0                      |
| 7       | 42+300 RHS | —              | Dukan                     | Jingktah pura (Full Impact)                               | 4.5                      |
| 8       | 42+800 LHS | —              | Pynlang um (Water Well)   | Boundary wall jong ka well                                | 4.0                      |
| 9       | 58+000     | —              | ĩing paidbah              | Compound wall                                             | 4.5                      |
| 10      | 58+085 LHS | Pala           | Dukan                     | Jingktah shi bynta (Partially Impacted)                   | 3.5                      |

MLCIP - Pynkynmaw ïa ka Road Dkhiah – Sutnga – Saipung – Pala sha Semmasi (0 – 64.00 Km) na ka bynta ka Meghalaya Logistics and Connectivity Improvement Project (MLCIP), kaba la buh lyngba ka World Bank

**ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT**

**Ki Resolution bad Ki Jingkyrpad Facility jong ki Shnong ha ka FPIC (Jaintia)**

| Sl. No | Kyrteng Shnong | Jait Shnong     | Resolution jong ka Shnong                      | Ki Jingkyrpad Facility                                                                 | Location / Chainage         | La Kynthup ha DPR                       |
|--------|----------------|-----------------|------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|
| 1      | Dkhiah East    | Roadside Shnong | Dorbar Shnong ka la pdiang pura ïa ka project. | Waiting Shed, Footpath cement, side drain bad railing, Street Light, Cemented Shoulder | Ch. 0.040 / Km 0.000–1.100  | Baroh la kynthup ha DPR                 |
| 2      | Moopala        | Roadside Shnong | Shnong ka la pdiang sngewbha ïa ka project.    | Footpath bad Railing, Bus Shelter, Street Light                                        | Km 5.500–6.400 / Ch. 5.800  | Baroh la kynthup ha DPR                 |
| 3      | Sutnga         | Roadside Shnong | Dorbar Shnong ka la pdiang ïa ka project.      | Footpath bad Railing, 4 Waiting Shed, Street Light                                     | Km 8.010–8.410 / Ch. 8.140  | Baroh la kynthup ha DPR                 |
| 4      | Mookympad      | Roadside Shnong | Dorbar Shnong ka la pdiang ïa ka project.      | Footpath bad Railing, 3 Waiting Shed, Street Light                                     | Km 9.300–10.100 / Ch. 9.560 | Baroh la kynthup ha DPR                 |
| 5      | Tluh           | Roadside Shnong | Shnong ka pdiang bad kular jingiatreilang.     | Footpath bad Railing, 2 Waiting Shed, Water Pipeline Shifting                          | Km 12.600–13.100            | Pipeline yn pynkynriah ha por jingiatei |
| 6      | Latyrke        | Roadside Shnong | Shnong ka pdiang ïa ka project.                | Pyntip shwa lada donkam jaka ne jingdon jingüing                                       | —                           | Pyntip shwa ïa ki nong shnong           |

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**ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT**

|    |              |                       |                                        |                                                                                             |                  |                                 |
|----|--------------|-----------------------|----------------------------------------|---------------------------------------------------------------------------------------------|------------------|---------------------------------|
| 7  | Moolamyliang | Roadside Shnong       | Shnong la pdiang treilang bad PWD.     | Footpath baroh ar liang, Street Light, Public Toilet, Internal Road, 3 Waiting Shed         | Km 14.600–15.000 | Baroh lait noh ka Internal Road |
| 8  | Tongseng     | Shnong jngai (1.5 km) | Shnong ka pdiang ïa ka project.        | 1 Waiting Shed                                                                              | Ch. 19.900       | Bus Shelter la kynthup          |
| 9  | Shnongrim    | Roadside Shnong       | Shnong ka pdiang ïa ka project.        | Retaining Wall marjan Playground                                                            | Km 23.500–23.650 | Retaining Wall la kynthup       |
| 10 | Khaidong     | Roadside Shnong       | Shnong ka kyrshan jingïap bynta surok. | Side Drain, Footpath Railing, Solar Light, Road Wall, Signboard, Bus Shelter, Speed Breaker | Km 23.945–25.440 | Baroh la kynthup ha DPR         |
| 11 | Bangla       | Shnong jngai (2 km)   | Shnong ka pdiang ïa ka project.        | Retaining Wall, Footpath, Street Light                                                      | —                | Ym la kynthup (Shnong jngai)    |
| 12 | Lumthari     | Shnong jngai (2 km)   | Shnong ka pdiang ïa ka project.        | 1 Waiting Shed                                                                              | Ch. 25.200       | Bus Shelter la kynthup          |
| 13 | Shnongthymme | Shnong jngai (0.5 km) | Shnong ka pdiang ïa ka project.        | Retaining Wall, Footpath, 3 Bus Shed, Street Light                                          | —                | Ym la kynthup (Shnong jngai)    |
| 14 | Moolasngi    | Roadside              | Shnong ka pdiang ïa                    | Retaining Wall, Footpath, Bus                                                               | Km 26.370–       | Baroh la kynthup                |

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**ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT**

|    |             |                     |                                          |                                                                             |                     |                                       |
|----|-------------|---------------------|------------------------------------------|-----------------------------------------------------------------------------|---------------------|---------------------------------------|
|    |             | Shnong              | ka project.                              | Shed, Street Light                                                          | 27.310              | ha DPR                                |
| 15 | Lumchyrgan  | Roadside Shnong     | Shnong ka pdiang ïa ka project.          | Retaining Wall, Internal Road, Toilet, Waiting Shed, Street Light, Footpath | Km 31.545–33.150    | Baroh la kynthup ha DPR               |
| 16 | Daistong    | Roadside Shnong     | Shnong ka pdiang ïa ka project.          | Retaining Wall, Waiting Shed, Parking, Road Furniture                       | Km 36.080–36.440    | Parking ym la kynthup                 |
| 17 | Bamkhoosngi | Roadside Shnong     | Shnong ka pdiang ïa ka project.          | Footpath, 4 Bus Shed, 5 Street Light, Public Toilet, Parking                | Km 37.200–38.700    | Parking ym la kynthup                 |
| 18 | Saipung     | Roadside Shnong     | Dorbar la ai NOC na bynta jingïap surok. | 6 Street Light, 4 Waiting Shed, 2 Parking, 2 Toilet                         | Ch. 42.830 & 44.600 | Parking ym la kynthup                 |
| 19 | Ngaibang    | Roadside Shnong     | Shnong ka pdiang ïa ka project.          | Footpath, Street Light, 2 Waiting Shed                                      | Km 46.450–46.850    | Baroh la kynthup ha DPR               |
| 20 | Khahnar     | Roadside Shnong     | Shnong ka pdiang ïa ka project.          | Retaining Wall, Road Straightening, Waiting Shed                            | Km 50.990–51.750    | Road Straightening ym la kynthup      |
| 21 | Mooknor     | Shnong jngai (1 km) | Shnong ka pdiang ïa ka project.          | Retaining Wall, Footpath, Street Light, Waiting Shed                        | Ch. 56.600          | Street Light & Bus Shelter la kynthup |
| 22 | Pala        | Roadside Shnong     | Shnong la mynjur ban ai jaka 10 m.       | Retaining Wall, Footpath, Street Light, Spring Water Repair, Toilet         | Ch. 58.055–58.375   | Spring Water ym la kynthup            |

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**ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT**

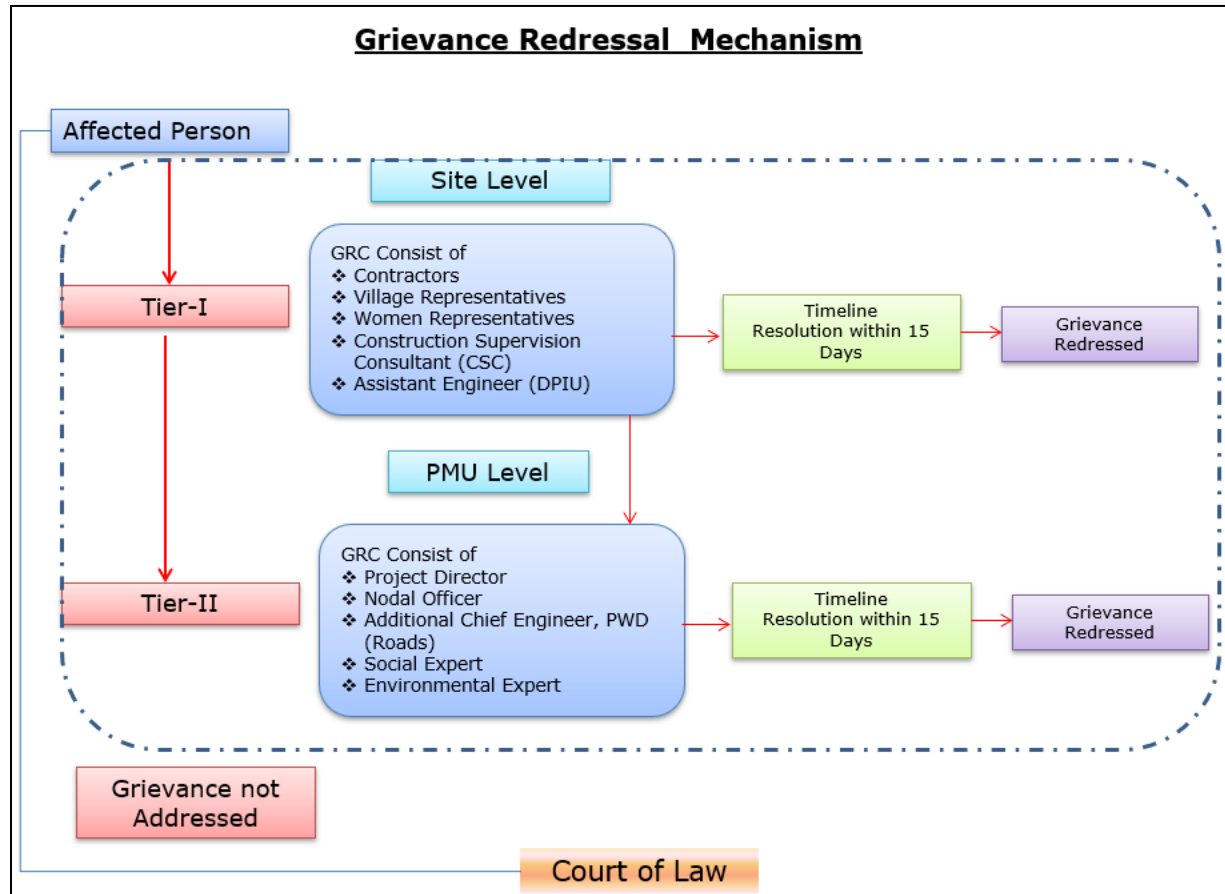
|    |         |                     |                                 |                                                          |                  |                         |
|----|---------|---------------------|---------------------------------|----------------------------------------------------------|------------------|-------------------------|
| 23 | Semmasi | Roadside Shnong     | Shnong ka pdiang ïa ka project. | Footpath ar liang, Drain, Bus Stop, Street Light, Toilet | Km 62.170–62.765 | Baroh la kynthup ha DPR |
| 24 | Larket  | Shnong jngai (3 km) | Shnong ka pdiang ïa ka project. | 1 Waiting Shed                                           | Ch. 62.400       | Bus Shelter la kynthup  |

### Flowchart jong ka Grievance Redressal Mechanism (GRM)

Kane ka flowchart ka pyni 'ia ka rukom treikam jing'ap jing'ap (two-tier) jong ka Grievance Redressal Mechanism (GRM) ryngkat ki nongkitkhlieh bad ka por ba la buh na bynta ka jingpynbeit-aid.

|                                   |                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tier I: Project Site Level</b> | Nongkitkhlieh: VECs bad Rangbah Shnong<br>Por ban pynbeit: Hapoh 15 sngi.<br><br>Lada ym lah ban pynbeit → Yn kyntiew sha PMU (Tier II) |
| <b>Tier II: State Level (PMU)</b> | Nongkitkhlieh: Secretary Planning, Chief Engineer, Project Director, Social Expert<br><br>Por ban pynbeit: Hapoh 15 sngi                |

### Ka Rukom Pynbeit Jingiakren/Jingud



### Ki Jingtip iakynduh na bynta ki Jingud (Grievances)

| Description | Contact details                                                                     |
|-------------|-------------------------------------------------------------------------------------|
| Company:    | PWD, Meghalaya                                                                      |
| To:         | Chief Engineer-cum-Nodal officer                                                    |
| Address:    | HV9P+GFJ, Lachumiere, Shillong, Meghalaya 793001                                    |
| E-mail:     | <a href="mailto:esmlcip@gmail.com">esmlcip@gmail.com</a>                            |
| Website:    | <a href="http://megpwd.gov.in/contacts.html">http://megpwd.gov.in/contacts.html</a> |
| Telephone:  | Tel: 0364-3572466                                                                   |

Fax:

-

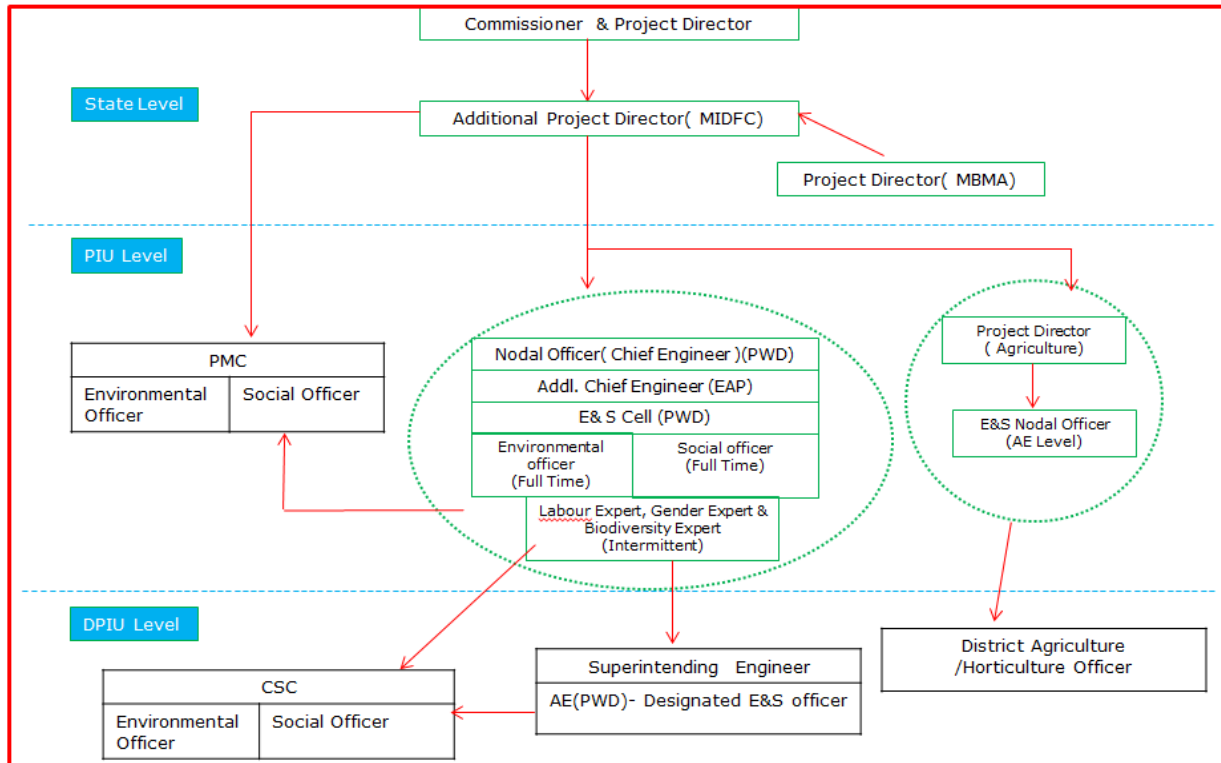
## **Governance and Overall Institutional Structure of the Project**

Ka jingïaid jingïeng bad ka jingtei jong ka rukom treikam paidbah jong ka Project

Ka rukom pyntreikam ïa ka project kan jingïadei bad ka jingtei jong ki jaka treikam paidbah kaba don mynta jong ka Sorkar Meghalaya (GoM), bad kan kynthup ruh ïa ki kyndon jong ka Sixth Schedule na bynta ka jingïala jingïaid jong ki jaidbynriew riwlum. Ka MIDFC, kaba don ka jingkitkhlieh ban pynïaid jingïadei ïa ka project baroh kawei bad ban pynioh pisa, kan long ka project holder bad ka lead implementing agency. Ka MPWD kan peit ïa ki kam civil works (ki surok, ki bridge bad ki ropeway), katba ka Department of Agriculture (DoA) bad ka MBMA kin pyntreikam ïa ki bynta agrologistics bad ki bynta jingïashim bynta paidbah (community components).

Ka MIDFC-PMU kan peit ïa ka jingïaid jingïeng jong ka project baroh kawei bad ka jingïahap jingïadei hapdeng ki tnat treikam lyngba ki ophisar kiba la nang bad kiba don jingïap jingïoh ha ki rukom treikam jong ka World Bank. Ka PMC, ka kynhun ki riwstad bad ki consultant ba la ialam da u Team Leader, kan ai jingïarap jingïatechnical na bynta ki kam project kiba palat ïa ka jingïap jingïoh jong ki tnat pyntreikam. Ka CSC kan ai ïa ka jingïapeit bad jingïap jingïaid ïa ka jingïatei (construction supervision).

Shuh shuh, ka PMC/CSC kin ïarap ha ka jingïalum jingïatip bad jingïthoh jingïkynthup ïa ki jingïatip baroh. Ka rukom pyntreikam ïa ka project la pyni ha ka Figure kaba bud.



**Figure: Ka Rukom Treikam bad Ka Organogram jong ka Project Implementation**

**Ki jinglap kongsan jong ka ESIA la pynlyngkot kumne harum:**

- Ka project ba la tyrwa kan pynsuk i'a ka jingiaid jingieng jong ki kali bad kan pynlong i'a ka jingiaid lynti kaba shngaiñ bad kaba iaid beit na bynta ki kali bad ki paidbah paidbah. Ka jingpynbha i'a ka surok ba la tyrwa kan pynhiar i'a ka por jingiaid na ka bynta kaba jngai tam jong ka surok sha ka i'ew kaba marjan. Kane ka project ka long kaba donkam eh ban pynkhlañ i'a ka jingiathied jingiadie bad ki kam khaiia (kynthup i'a ka public transport) ha ka distrik East Jaintia Hills.
- Ka jingiakheñ i'a ki jingtah mariang bad jingiap paidbah la leh katkum ka World Bank Environmental and Social Framework (ESF) bad ki aiñ jong ka Ri bad ka Jylla. Baroh ki jingtah ba lah ban mih la ithuh katkum ki bynta shuwa ka jingiateri, ha ka por jingiateri bad ha ka por pyntreikam (operation phase).
- Kane ka project kam donkam i'a ka Environmental Clearance lane Forest Clearance.
- Ka alignment jong ka project kam iaid lyngba kano kano ka Wildlife Sanctuary, National Park, Biosphere Reserve lane Tiger Reserve.
- Ym shym la lap i'a kano kano ka monument ba la jingiada da ka ASI hapoh 0.5 km na ka jaka project. Hynrei, ki Monolith ha Ch 01+700, Ch 10+800 bad Ch 11+600 bad ka Krem (Cave) ha Ch 22+500 LHS ki don hapoh 500 meter na ka surok project.

- Kumba 32 tylli ki dieng ki don hapoh ka Right of Way (RoW) ba la don lypa ha baroh ar liang jong ka surok. Ban pynhiar ia ka jingktah ia ka mariang na ka jingtynrah dieng, dei ban leh ia ka compensatory afforestation katkum ki kyndon bad ki jingiathuh jong ki aiñ mariang.
- La khmih lynti ba ka surok project kan don katto katne ki jingktah mariang bad jingiap paidbah namar ki kam jingiateri ha ka corridor, ka jingdon hajan ki jaka ba don jingiap jingioh riti dustur kum ki monolith bad ki krem, bad ki jingktah ia ki Project-Affected Persons (PAPs) na bynta ki jingeh jingiadei bad ka jingiaid lynti.
- La pynlong ia ki jingiakren bad ki stakeholder ban bishar ia ka jingmut jong ki paidbah shaphang ka project ba la tyrwa. Ka jingmih na kine ki jingiakren ka pyni ba ki paidbah ki kyrshan ia ka project namar kan pynbha ia ka jinglong jong ka surok bad ka jingiadei. Hynrei, ki paidbah ki la pynpaw ruh ia ka jingdonkam ia ki lad jingshngaiñ ha surok; ki road furniture (kynthup ia ki streetlight, signage, speed breaker bad kiwei kiwei) bad ka jingiap pisa kaba hok na bynta ka jingduh ia ki mar shnong jong ki.
- Ki lad jingiada ia ka koit ka khiah bad ka jingshngaiñ ha ka kam (occupational health and safety) na bynta ki nongtrei bad ki paidbah shnong dei ban pynthikna lyngba ka jingithmu bad jingiap jingiaid ia ka Labour Management Plan (LMP), katkum ka World Bank Environmental and Social Standard ESS2 shaphang Labor and Working Conditions.
- Ka jingiap jingiaid ia ki lad jingiada (mitigation measures) kan sa pynkhilaiñ shuh shuh lyngba ka prokram jingiapei mariang bad jingiap paidbah ha ka por jingiateri bad operation ban pynthikna ba baroh ki lad jingiada la pyntreikam bad ban bishar la ka jinglong mariang bad jingiap paidbah la pynneh ne la jingiada katkum ba la buh. Kane kan kynthup ia ki jingiohi ha jaka bad shabar jaka, ka jingiapei ia ki kot ki sla, bad ki jingiakren bad ki nongtrei bad ki nongmyntoi. Kino kino ki jingdonkam ia ka jingpynbeit (remedial action) yn pyntip da u contractor sha ka MPWD.
- Ka ESMP dei ban kynthup ha ki bidding document ryngkat bad ki kyndon contract kiba biang ban jingiada ia ka mariang bad ki jingktah jingiap paidbah ha ka por jingiateri bad ha ka por pyntreikam (maintenance period).
- Yn thaw ia ka Grievance Redress Mechanism (GRM) ha ka kyrdan project bad ruh ha ka kyrdan construction ban pdiang ia ki jingai jingmut, jingiathuh bad jingiaid jingiap, lada don, na ki briew ba ktah, bad ban pynbeit ia ki ha ka por jingiateri bad ha ka por operation.
- Ka ESMP ba la pynkhreh kan iarap ia u Contractor bad ka MPWD ban pynhiar ia ki jingktah mariang bad jingiap paidbah bad ban ialam ia ki ha ka jingiateri kaba jingiadei bad ka mariang.
- Ka kopi jong ka ESMP ba la pynthymmai dei ban buh manla ka por ha ka jaka jingiateri ha ka por construction. Katkum ki kyndon jong ka World Bank, ki safeguard document ba la pynkhreh dei ban pynpaw paidbah ha ka website jong ka World Bank.

## **Capacity Building bad Training**

Ban pynkhlaïñ ïa ka jinglah ban pyntreikam bad ban peit ïa ka Environmental and Social Management Plan (ESMP), la ai jingmut ban pynlong ïa ki training ba la buh ryntih na bynta baroh ki nongtrei contractor bad project. Kine ki training kin pynthikna ïa ka jingïap jingïaid katkum ki aiñ, kin pynroi ïa ka jingtip bad kin tei ïa ka jinglah ban khmih ïa ki jingeh mariang bad jingïap paidbah (E&S risks).

### **On-Boarding Phase**

#### **a. Induction Training**

\* Ka long kaba donkam eh na bynta baroh ki nongtrei shuwa ban sdang kam.

\* Ka kynthup ïa ka Contractor’s Environmental and Social Management Plan (C-ESMP), ki aiñ ESHS jong ka ri bad ka pyrthei, bad ki jingïap jingïaid ba bha.

#### **b. Specialized Training**

\* Training ba la pynkhreh kyrpang na bynta ki nongtrei kiba don bynta kyrpang (kum u environmental officer, safety officer, waste management supervisor).

\* La ai ha ka por mobilization ban pynthikna ba ki nongtrei ki la biang ban shim ïa ki kam ba la bynta ha ki.

### **Implementation Phase**

\* Toolbox Talks ba bteng:

La pynlong manla ka sngi lane manla ka taiew ban peit ïa ki jingeh ba dang mih, ban pynkhlaïñ ïa ki lad jingshngaiñ bad ban pynneh ïa ka jingïatip jingïalang hapdeng ki nongtrei.

\* Supplemental Training:

La ai hadien kino kino ki jingjia lane haba lap ïa ki jingeh thymmai, ban khanglad ïa ka jingjia biang bad ban pynthikna ba ki nongtrei ki dang ïaid katkum ki kyndon thymmai.

\* Routine Quarterly Training:

La pynlong da u contractor manla ka lai bnai ban:

o bishar ïa ka jingïap jingïaid E&S bad ka jingkieu jingïaid;

o ïasam ïa ki jinghikai na ka bynta ba la dep;

o thaw ïa ki jingïathmu ban pynbeit ïa ki jingduna lane ki jingeh;

o pynthikna ïa ka jingïadei bad ki thmu E&S jong ka sub-project bad ban pynroi jingïap jingïaid ba bteng.

### **Outcomes of the Stakeholders**

Ha FPIC-I, ki shnong ha ka surok Dkhiah–Sutnga–Saipung–Pala–Semmasi ki la pynpaw ïa ki jingeh shaphang ka jingkynriah jaka, ki jingktah ïa ka jingïap kam bad ka jingïada ïa ki mar shnong. Ka kynhun project ka la batai ïa ka jingktah, ka la batai ïa ka rukom FPIC, bad ka la kular ïa ki rukom treikam kiba shai bad kiba hok. Ki shnong ki la mynjur ban pynlong ïa ki Dorbar shnong bad ban aiti ïa ki resolution, bad la sdang ruh ïa ki sienjam ban thaw ïa ka Grievance Redress Mechanism (GRM).

Ha FPIC-II, la pynlong ïa ki jingïakren technical ba bniah bad ki nongïalam shnong, ki kynhun kynthei, ki samla, ki ophisar sorkar bad ki consultant. La jingïakren shaphang ka design surok, ki retaining wall, drainage, utilities, ka jingtyndrah dieng bad ki jingktah na ka jingïatei. La pynpaw ïa ki jingeh shaphang ki pipeline um, ka jingbret khyndew, bad ki jingdonkam jingshngaiñ shnong-by-shnong. Kawei ka jaka bret khyndew kaba ym shngaiñ la kyntait hadien ka jingïapeit jaka. Ki shnong ki la pan shuh shuh ïa ki jingïatei kum ki breast wall bad drainage. Ka kynhun project ka la kular ban pynthymmai ïa ka DPR, ban pynkynriah ïa ki utility ryngkat bad ki tnat jingïadei, ban pynthikna ïa ka jingbret khyndew kaba shngaiñ ïa ka mariang, bad ban pynïaid ïa ka GRM ha ki kyrdan shnong bad block.

Ha FPIC-III, la pan ïa ka jingïamynjur ba khatduh hadien ka jingïpynpaw ïa ka DPR, ESIA bad ki lad jingïada. Ki shnong ki la buh jingkylli shaphang ki jingïatei jingshngaiñ, ka jingkynriah mar shnong, ki tyllong um, ki jingeh shaphang ka jaka bad ka jingïatreikam jong u contractor. Ki resolution shnong 21 tylli la pdiang, kynthup ïa ki jingpan na bynta ki footpath, bus shed, streetlight bad ki lad jingshngaiñ hajan ki skul bad ki jaka paidbah. Ka kynhun DPR ka la pynthikna ba bun ki jingpan shnong la kynthup, ka GRM la batai paidbah, bad ki shnong ki la ai ïa ka jingïamynjur pura lyngba ka jingïar paidbah (hand-raising). Ki kam ba bud ki kynthup ïa ka jingïatei lad jingshngaiñ, ka jingïapeit mariang, ka jingïadei bad ki nongïalam shnong, bad ka jingïpynïaid pura ïa ka GRM ha ka por construction.

### **Resettlement Action Plan (RAP)**

Katkum ka Resettlement Policy Framework (RPF), ka project kan shim ïa ki lad ban kiar bad ban pynhiar ïa ki jingktah jingïap paidbah lyngba ka design kaba bniah bad ka jingïpyndonkam ïa ka RoW ba la don lypa.

Ki jingïakren bad ki paidbah kin bteng, bad ka GRM kaba treikam bha kan pynthikna ïa ka jingpynbeit kloi ïa ki jingeh. Baroh ki jingïap jingïoh (entitlements) yn ai katkum ka RPF. Katkum ki jingktah ba la ithuh na bynta kane ka bynta surok, yn pynkhreh ïa ka site-specific Resettlement Action Plan (RAP) kaba bniah, kaban pynpaw ïa ki jingïap jingïoh ba khatduh, ki

lad jingïada, ki rukom pyntreikam bad ka framework jingïapeit, bad kane yn pyntreikam shuwa ban sdang ïa ki kam civil works.