

NEW SHILLONG TOWNSHIP WATER SUPPLY SCHEME

Background: The New Shillong Urban Water Scheme (Phase-1) accorded sanction at a cost of 538.44 Crore.

- The Scheme is designed to ensure portable water supply to New Shillong Town Ship, The Mawkhanu Knowledge City and 32 adjoining villages.
- Designed to provide 135LPCD (Liters Per Capita Per Day) with projected populated coverage up to 2057.

Revision cost necessity:

- **Shifting of Dam Location:** The originally proposed dam site has been shifted further upstream after it was learned that a landfill is also proposed in the vicinity of the originally proposed dam at Nonghali Village. This shift has resulted in an increase in the span of the dam from 70 m to 165 m, and in the number of radial gates from one to three. Accordingly, the overall structural dimensions have been modified.
- **Additional Earthwork for Jackwell Slope Stabilisation:** The upstream shift of the dam has also resulted in the relocation of the jack well, where the local topography around the jack well periphery necessitates additional excavation, earthwork, soil stabilization, etc.
- **Compensation Demands for local Dorbar Shnongs:** Initially, there was no demand from the community/local Dorbar Shnongs for compensation for laying the raw water pumping pipelines across customary lands. However, at present, there is a demand for compensation for the same.
- **Requirement of Dedicated Power Supply:** This requirement was not captured in the original DPR, and the provision of independent power infrastructure has now become mandatory for system reliability and efficiency. However, the provision for this component will be reviewed again.
- **Road restoration:** Approximately 1.5 km of the existing PWD road must be dismantled and excavated for pipeline laying due to a change in the alignment of the pumping main at Jaroit Village and Diengpasoh Village. This is unavoidable as a result of the change in the dam site

Cumulative Impact: Increase of 43.55 %

Total Cost: revised from 538.44 crore to 772.96 crore. Difference of 234.52 crore

These changes have substantially increased civil, Mechanical and Electrical components including land compensation costs rendering the originally sanctioned estimate inadequate.


Minister.
i/c PHE, Soil & Water Conservation
and Housing, Meghalaya.

The revised estimate is essential:

- Ensure environmental safety by avoiding proximity to landfill sites
- Achieve structural and hydraulic safety of the dam and jackwell
- Maintain community cooperation through fair land compensation
- Guarantee, dedicated and reliable power supply for critical infrastructure for uninterrupted water supply.
- Restore public assets affected during pipeline construction.



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Nongrim: Ka New Shillong Urban Water Scheme (Phase-1) ka la ioh ia ka mang tyngka kaba 538.44 klur.

- La pynwandur ia ka skim ban pynioh umdih sha New Shillong Township, ka Mawkhanu Knowledge City bad 32 tylli ki shnong ba marjan.
- La pynwandur ban pynbiang 135 LPCD (Liters Per Capita Per Day) kaba lah ban pynbiang umdih ia ki nongshong shnong haduh u 2057.

Ka jingdonkam ban pynthymmai ia ka dor:

- **Ka jingpynkynriah ia ka Dam:** Ka jaka dam um kaba la thmu nyngkong la pynkynriah kham shaneng wah hadien ba la ioh jingtip ba ka don ka jingpyrkhat ban buh ia ka jaka bret niut ha ki sawdong sawkun jong ka dam kaba la thmu shna thymmai ha shnong Nonghali. Kane ka jingpynkynriah ka la kyntiew ia ka lynter jong ka dam na ka 70 m sha ka 165 m bad ka jingbuh ia ki khyrdop pyllait um na kawei sha ka laitylli. Kumta, la pynkylla lut ia ka rukom pynwandur ia ka dam.
- **Ka jingtih shuh ia ka khyndew na ka bynta ban pynskhem ia ka Jackwell:** Ka jingpynkynriah kham shaneng wah ia ka dam ka la pynlong ruh ban hap kynriah ia ka jack well ha kaba ka jaka ha sawdong ka jack well la donkam ban hap tih shuh, bad pynskhem ia ka khyndew, bad kiwei kiwei.
- **Ka bailutksan na ka bynta ki Dorbar Shnong:** Ha kaba nyngkong, kam shym la don ka jingdawa bai lutksan na ki nongshong shnong/Dorbar Shnong na ka bynta ban pyniaid ia ki *raw water pumping pipelines* ha baroh ki jaka shnong. Hynrei, ia mynta, ka don ka jingdawa ia ka bailutksan na ka bynta kane.
- **Ka jingdonkam la ka jong ka bording:** Kane ka jingdonkam kam shym la paw ha ka DPR kaba nyngkong bad ka jingpynbiang la ka jong ka lain bording ka long kaba donkam na ka bynta ka jingbit jingbiang jong ka dam. Hynrei ka jingdonkam ia kane ka bording yn dang bishar bniah biang.
- **Ka jingshna biang ia ka surok:** Kumba 1.5 km jong ka surok PWD kaba don la hap ban pynpranoh bad tih ban pyniaid ia ki pipe namar ka jingpynkylla ha ka jingpynbeit ia u Pumping Main ha shnong Jaroit bad Diengpasoh. Ym lah ban kiar ia kane namar ka jingkylla jong ka jaka shna ia ka dam.

Ka jingkynton ia ka jinglut: Ka la kiew da 43.55%

Ka jinglut baroh: la pynthymmai na ka 538.44 klur sha ka 772.96 klur. Ka jingiapher da 234.52 klur

Kine ki jingpynkylla ki la nang kynton ia ka jinglut na ka bynta ki jingshna ia ki jingtei, ki kor ki bor bad ka bording kynthup ia ka bailutksan na ka shim jaka kaba pynlong ia ka jingmang tyngka kaba nyngkong ban nym dap.

Ka jingpynthymmai ia ka jingmang pisa ka long kaba donkam ban:

- Pynthikna ia ka jingshngain ka mariang bad ki sawdong sawkun da kaba kiar na kaba iajan bad ki jaka pynkhuid niut
- Wanrah jingshngain ia ki jingtei bad ki jaka ba pyniaid ia ka um lyngba ki pipe sha ka dam bad ka jackwell
- Ban wanrah ka jingiatreilang bad ki nongshong shnong da kaba siew bailutksan
- Ban pynthikna ia ka bording kaba biang ia ki jingtei kiba kongsan na ka bynta ka jingsam umdih ka bym don jingthut
- Ban pynbha biang ia ki jingdon jingem ki paidbah kiba la shah ktah ha ka por ba pyniaid ia ki pipe.

NEW SHILLONG TOWNSHIP WATER SUPPLY SCHEME

Kamni bidingo talatani: New Shillong Urban Water Scheme (Phase-I)-na gong krur 538.44 tangkarangko sanction ka-aaha.

- Ia scheme-ara New Shillong Township, Mawkhanu Knowledge City aro sambajolo donggipa dam 32 songrangona namgipa ringani chi-ko sokatna miksonga.
- 135LPCD (Liters Per Capita Per Day)-ko on-a aro 2057 bilsiona kingking cholina gita tariaha.

Korosrangko nangdapani:

- **Dam rikchakani biapko apjitani:** Nonghali songo rikna miksonggipa dam-ni sambao jabol gopchakramkoba donna miksongenga ine ma-siani ja-mano dam-ko rikna a-bachenge janapgimin biaponi kosakbatgipa biapona apjitataha. Ia biapko apjitani chi dam-ni bakroani 70 m oni 165 m ona, aro radial gate-rangba ge-saoni ge gittamona baridapaha. Ia chu-gimik dam-ko rikano apalani aro bakroani gimikkon taripiltaiaha.
- **Jackwell-ko mangrake rakkina a-ani kamrangko ka-dapani:** Dam-ko rikna gita chi kosakchi apjitani chi jack well-koba apjitna nangao ga-akaha jeni a-selo jack well-ni wilwila biapo a-a cho-dapani aro gipin kamrangko ka-dapnaba nangjolaha.
- **Dorbar Shnong-rangni a-ana tangka dabiani:** A-ao raw water pumping pipeline-rangko donna gita a-bachengode songni/Dorbar Shnong-rangoni tangka gamna nanganiko dabiani dongjachim. Indiba da-ode iana gamna nanga ine dabianiko dakenga.
- **Dingtangmancha power supply-ko donna nangani:** Original DPR-ode ia nanganiko janapa dongjachim, aro name kam ka-na man-a gita iana dingtangmancha power supply-ko donaniko nangchongmotataha. Indiba ia kamrangni bidingo nipiltaihaniko daktaigen.
- **Ramako taripiltaiani:** Jaroit aro Diengpasoh songrango pumping main-ni alignment-o dingtanganichi pipeline-ko donna gita da-o donggenggipa 1.5 km-ni PWD ramako cho-na gita nangaha. Dam-ko rikani biapko apjitani chi iako dakna nangao ga-aktelaha.

Chu-gimik korosni bariani: 43.55% baridapa

Chu-gimik koros: Gong krur 538.44 oni gong krur 772.96 ona baridapata. Dingtanggrikani gong krur 234.52 ong-a.

Ia dingtanganirangchi Civil, Mechanical aro Electrical kamrang baksana a-a ra-ani korosrangba baridapataha jeni a-selo a-bachenge sanction ka-gipa estimate chu-ongjaha.

Ia taridaptaigipa estimate-ko iarangna nangchongmota:

-Jabol gopchakram biaprangrangoni sepange donggija samtangtango dongtelaigipana chel-chakaniko on-a man-gen.

-Dam aro jack well-ni pangchakani aro haydraulic-na chel-chakaniko on-a man-gen.

-A-ana ong-a bewalo tangka gampilanichi songsalni bakrimaniko mangrake rakkina man-gen.

-Chotchanggija chi-ko sokatna gita namgipa ka-dongna man-gipa power supply-ko dingtangmancha donatna man-gen.

-Pipeline-ko donani somoio samtangtango nosto ong-anirangko taripiltaina man-gen.