Office of the Project Director Community-based Forest Management and Livelihoods Improvement in Meghalaya

Shalom Building, 2nd Floor,

Lower Lachumiere, Shillong-793001





Meghalaya Livelihood Improvement through Forest Enhancement



Meghalaya Basin Development Authority

Dated: Shillong, the 25.Jan, 2023



Japan International Cooperation Agency

No. MBDA/JICA/2022/1036/ 298

From The Additional Project Director MegLIFE, MBDA, Shillong

To The Block Project Managers MegLIFE, MBDA

Subject: Guidelines for Construction of Community Halls under MegLIFE Project Villages

The MegLIFE Project has target for implementing entry point activities in every project village as an essential part of community mobilization process to get more and more participation from the community for successful implementation of MegLIFE Project activities at village level.

- 2. In this context, after taking the choice of VPIC members 370 MegLIFE project villages have been selected for construction of Community Halls under EPA component of the MegLIFE Project. Accordingly, funds against construction of community hall have already been placed with the VPIC accounts of all the concerned 370 MegLIFE project villages.
- 3. Guidelines related to the process of implementation, signing the agreement for acquisition of land for construction, environmental and social safeguard screening process and model design and estimate are enclosed herewith at Annexure-1 for reference and necessary action.
- 4. Uniform display boards (design as shared by SPMU) are required to be placed in all construction sites.

Enclo: As Stated

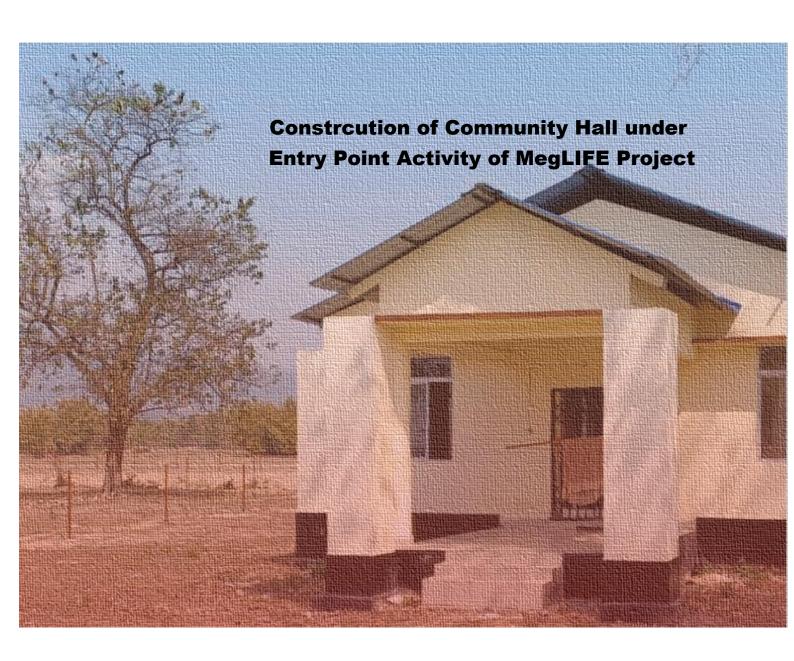
ddl. Project Director MegLIFE, MBDA, Shillong

Copy to:

- 1. The Project Director, MegLIFE, MBDA, Main Secretariate Building, Shillong-for favour of kind information
- 2. The District Project Managers, MegLIFE, MBDA-for necessary action

dl. Project Director MegLIFE, MBDA, Shillong

Annexure-1



Background-

Experience of Externally Aided Projects based on participatory approach shown that impact of activities implemented under the projects are greater when community plays active role. Entry Point Activities (EPAs) are essential parts of community mobilization process to get more and more participation from the community. The project for Community Based Forest Management and Livelihoods Improvement in Meghalaya (MegLIFE) will be implemented in Project Villages for next 7 years in phase-wise manner. It is difficult for implementing agency to get full participation of the villagers for such a long period without providing immediate benefits to the participating villages.

Objective of Entry Point Activities (EPAs):-

- * To mobilize community for effective and participatory project implementation.
- ❖ To gain confidence of community.
- ❖ To endow tangible assets to target community.
- ❖ To provide short-term financial benefits and incentives to the community in the form of wages.

Based on these principles, communities were sensitized for 'need assessment' and 'prioritization' of EPAs in all Project Villages.

Shortlisting of potential EPAs-

- List of potential EPAs was prepared with community consultation based on the problems and needs of the villages were identified during 'Focus Group Discussion' (FGD).
- Community members have also identified the possible locations for prioritized activities.

Out of 450 Group-I Project Villages, 300 villages demanded for 'Community Hall'. Based on the demands received from community, the Project has decided to construct Community Hall in these villages under EPA component of the MegLIFE Project in this Financial Year i.e. 2022-23.

Village Community Hall -as EPA:

Village Community Hall is the common public place in the village, which can be an important hub in the village that gives residents an opportunity to provide venue to socialise, learn and access various public services. The idea of such community space was envisioned to provide a place for the community to interact and exchange knowledge, ideas and provide them with a venue for carrying out project activities like trainings, meetings, microplanning. Besides these, the community hall can also be used Office of the Village Project Implementation Committee (VPIC), and also as a processing centre for livelihood activities especially as processing and storage space etc. The Community Hall will be equipped with toilets for gents and ladies with and also 'rainwater harvesting structure'. The hall can also be utilized for organizing medical camps and other community events etc. that cater to the socio-economic development and overall wellbeing of the community.

Investment for Construction of Community Hall in the Project Village:

In the MegLIFE Project, Rs. 13,38,983/- (Rupees Thirteen Lakhs Thirty-Eight Thousand Nine Hundred Eighty-Three only) was budgeted. Besides, the Govt. of Meghalaya has approved an additional fund of Rs 10 lakhs per village for EPA. Therefore, the total fund available for EPAs is Rs. 23,38,983/- (Rupees Twenty-Three Lakhs Thirty-Eight Thousand Nine Hundred Eighty-Three only) per village.

Proposed Implementation Process:

1) Land identification and acquisition:

The Executive Committee of the VPIC will jointly survey the earmarked site (A community owned site or a site allocated by private individuals for community use with proper legal documentation) with BPMU team to identify location and take GPS coordinates of the place. A Memorandum of Agreement (MoA) will be signed between the VPIC and the owner of land in case of Private/Clan land. In case of community land, 'No Objection Certificate' will be taken from the village Sardar/ Nokma.

2) Design/Specification:

SPMU shall provide the technical approved plan, design and the technical specifications of the community halls.

3) Implementation Agency for Construction:

VPIC will be the implementation agency for construction of community hall in the respective project village.

4) **Implementing Officer (IO) and technical supervision:** The concerned BPM may be designated as IO and the technical supervision should be the responsibility of the Field Engineer of the concerned DPMU.

5) Labour:

The construction would require skilled and unskilled labour. It is envisaged that the VPIC would be responsible for bringing in mason for construction and all skilled labour. The community could contribute in-'kind' by providing unskilled labour which will be included in the overall labour cost at market prices under the head "community participation" for some percentage as decided by community. Rest of the unskilled labour will be from the villagers under other schemes such as MGNREGA.

6) Materials

The cost of construction material such as cement, sand, gravel, bricks, steel, etc., can be accounted for as per purchase according to estimate. Nearby IVCS may be approached for supply of materials.

7) Plan for execution

VPIC Executive Committee will prepare a plan for execution of construction work of community hall.

The plan will consist of

- ❖ Designated members responsible for item-wise construction work
- Cost estimates of each item (both material and labour)
- ❖ Details of mason hired for construction and basis of selection (Suitably qualified and experienced mason should be identified and be entrusted the job of construction. MGNREGA masons if available may be hired)
- ❖ Details of materials to be purchased along with quality checking mechanism (Quality Checked certificate to be obtained from Field Engineer of the DPMU)

- ❖ Total no. of Labour (skilled and unskilled required) to be mentioned
- Villagers' contribution in terms of cash or Kind (labour/material) to be mentioned
- ❖ Total Estimated time for construction
- Supervision mechanism
- ❖ Measurement Book (MB) shall be recorded by the Field Engineer.

8) Release of Funds:

SPMU shall release funds to the DPMU based on the expenditure sanctions and administrative approvals issued by SPMU. The DPMUs shall release funds to the VPIC- Project Village Development Account.

9) Withdrawal of funds for construction activity:

Executive Committee of the VPIC will convene a meeting before each and every withdrawal of funds against community hall construction and also record the minutes/resolution depicting purpose of withdrawal and responsibilities given to each member on expenditure of the fund withdrawn.

10) Community Contribution:

VPIC members will be contributing either in cash or in kind like supplying materials for construction, giving some percentage of labour, providing equipment like chair, table, solar lighting, water filter, almirah for Community Hall.

11) Execution of work:

Based on the execution plan VPIC Executive Committee will execute the construction of community hall. Village Community Facilitator will be responsible for maintaining records viz. muster roll, payment voucher, material purchased register etc. wherever the VCF is not properly literate, the Chairman, EC shall assign the work to either the Member Secretary or other members of the EC.

A record of muster rolls as per the format prescribed by SPMU shall necessarily be maintained and strictly monitored.

12) Work site management and attendance

- ❖ No person below the age of 18 should be permitted to work on any MegLIFE construction works.
- ❖ Worker's attendance and the wages paid will be shown against each name with the signature/ thumb impression of the worker
- Any person desirous of seeing the current muster roll will be provided access to it at the worksite during working hours on all working days.
- the workers engaged will be selected from among the villagers themselves. Not less than five workers on a weekly rotational basis should be designated to verify and certify all the bills/vouchers of the worksite, at least once a week.
- ❖ A copy of the sanctioned estimate and the work order must be available for public inspection at the worksite.
- ❖ Attendance should be captured by VCF only in the muster roll signed and authorized by the VPIC Chairperson.

13) Worksite Facilities

- ❖ Worksite facilities (Medical aid, drinking water and shade) will be provided at the worksite.
- ❖ The first aid box will be replenished as and when required and will not have medicines that have expired.

- ❖ In case the number of children below the age of six years accompanying the women working at any site are five or more, one of such women workers will be made to depute to look after such children. She will be paid wages equal to the prevalent wage rate paid to the unskilled worker. The expenditure will be separately recorded.
- ❖ All expenditure on worksite facilities shall be booked as part of administrative expenditure

14) Measurement of works, checking and calculation of wages:

- ❖ All measurements of work done shall be recorded in the measurement book (MB) duly authorized and issued by DPMU and maintained by Field Engineer.
- ❖ Weekly measurement of works will be undertaken by Field Engineer. H/She will ensure that all measurements are taken within 3 days after close of weekly muster. The MB should be recorded as per the standard proforma of the MB.
- ❖ All measurements will be captured task-wise so that nothing remains invisible and underpaid.

Activity components:

i) Activity (ii) Length (iii) Width (iv) Height. Thereafter the quantities will be calculated. (v) Unit cost i.e Total cost (vi) Labour component

Material component

- i) Name of the Material (ii) Quantity (iii) Unit price (iv) Total
- ❖ Appropriate check measurement norms will be adopted by DPM to ensure creation of quality assets. DPM will ensure check measurement after the work is completed
- ❖ Wages to be paid to the workers shall be calculated on the basis of work outturn per day as per the prevailing MGNREGA wage rate.
- Online payment through banking system could also be done through NEFT. The accounts of labourers should be done on the basis of muster roll of the week.

15) Supervision

Day to day to supervision will be done by person (s) given the responsibility by Executive Committee of VPIC. Field engineer will inspect weekly once during the construction and while recording of MB including final inspection at the end of construction to ensure compliance to the design and specification provided. He will also report to the project authority on any issue such as delay or non-utilization of the funds etc.

16) Transparency:

- ❖ Photo documentation will be made at three stages- before/during /after the construction. It would also be mandatory to include the details of the construction site in terms of latitude and longitude.
- ❖ Display Board showing Project Name, Logo, Estimated Cost & Expenditure, Implementing Agency, year of execution, latitude & longitude, no. of person days generated, no. of people benefitted shall also be displayed at worksite. The design already given by SPMU to be adopted in this case.

17) Completion Report

Completion Report will be placed in the file pertaining to the work in the VPIC. This would serve as a record of verification of completion of work. This report will contain completion certificate issued by the Field Engineer and also should be jointly verified by BPM. An 'Utilization Certificate' of fund withdrawn against community hall construction activity duly signed by both the joint signatories of the VPIC Village Project Development Account shall be submitted to the SPMU.

The construction and operationalization will be completed within **6 months** after release of funds.

Operation & Maintenance:

A formal O&M arrangement will be made in which the interest of the people is sustained. VPIC can hire a cleaner for O&M. In cases where the village has SHGs, the job of everyday maintenance can also be assigned to them at a nominal cost. This would not only act as a revenue generating source for the SHG but will also ensure that the community's resources are retained within the community. Such arrangements are called community contracting; Costs for O&M (for daily O&M as well as for repair and maintenance) can be worked out and divided among the community members using the facility. This ensures that the complex is maintained properly.

The outer walls of the community hall will be used as transparency board of the VPIC.

Capacity Building:

Training on estimation and site specific design verification will be provided by SPMU to the Field Engineers of DPMU for effective implementation of the community hall construction work.

Training to the members (including at least 50% women) of the VPIC on operation and maintenance of assets will be provided under Capacity Building component of the Project. The MegLIFE project will organize training & awareness programs on maintenance of assets created under the Project at the block level. The training will include both class room and onsite training.

Monitoring & Evaluation (M&E):

Monitoring Indicators

While the final indicators to be used for monitoring the EPA component would be established through participatory process involving the communities at the commencement of Programme Implementation, an indicative list of indicators is provided below:

Performance indicators:

- No. of EPAs implemented by type
- No. of EPAs directly implemented by community
- No. of households benefited.
- Community contribution as % of total cost (where appropriate).
- Ability of community to collect community contributions (voluntary labour, material etc.) for maintenance.

MEMORANDUM OF AGREEMENT

Between

The VF	PIC,
	(Address of the VPIC)
And	
Mr. / Ms	
This AGREEMENT made on the	day of
between the Village Project Implementation Committee (VPIC) represented by (F	
number), a village-based community organisation established under the P	roject for Community Based Forest
Management & Livelihoods Improvement in Ma	eghalaya (MegLIFE) and
Mr./Ms (Name of Landowner), S	Son/Daughter/ of (Full Address with
phone number) for utilising his/	her ha of private land/Clan
Land in accordance with the Micro Plan that will used for	(specify purpose) for a
period of (years) or for perpetual use (Please specify).	
WHEREAS the VPIC has been established for the purpose of implementin programs of the MegLIFE with the aim to strengthen participatory nature	
district in state of Meghalaya.	
WHEREAS, landowner may include clans, <i>nokmas, dolois, rangbahshnor</i> landowners and should ensure that the land is free from any disputes or other	
WHEREAS, wherever land is mentioned in this agreement it should necessarily land, barren or waste lands, Jhum lands, water bodies such as springs, ponds,	_
WHEREAS, the VPIC should in principle utilise the land for NRM activities that is prepared through a participatory process and approved by the GB. VPIC, or	
Under no circumstances should the said land be acquired through coercion, for	ce, blackmail or any unfair practices.

There should be <u>free, prior and informed consent</u> on utilization of the land for the purposes for which it is required

and included in the Micro plan.

AND WHEREAS both the parties, after negotiations and discussions, mutually agreed to undertake and discharge the following responsibilities, obligations and duties necessary for the smooth and successful implementation of the project and as per the detailed terms and conditions laid down hereinafter.

A.	VPIC agrees to discharge the following duties and responsibilities:
1.	To abide by the terms and conditions as agreed with the landowner and endorsed by
	for the period of time agreed upon.
2.	To implement the agreed benefit sharing mechanism with regard to the benefits that are likely to be accrued from the land as a result of the interventions included in the Micro Plan, endorsed by the (name of Dorbar/Village Institution) and for the period agreed upon with
	the landowner.
3.	The VPIC to utilize the land for the purposes agreed upon in the Micro Plan and endorsed by the GB, VPIC, Durbar/XXX/XX and DPMU and will not divert for any other purposes.
4.	VPIC to engage with landowner to participate in the activities to be carried out on the land being used for implementation of MegLIFE NRM activities.
5.	The VPIC shall ensure that the activities to be implement on the land are agreed upon during planning stage of the Micro Plan that is endorsed by (name of Dorbar/Village Institution).
6.	The VPIC should not utilise the land for any religious or political purposes or other activities that is not included in the Micro Plan.
7	The V/DIC should ensure maintenance of the land

- The VPIC should ensure maintenance of the land.
- Agree on modalities with the landowner for maintenance and access to benefits from the land by the 8. community benefitting after the expiry of the agreed time period.
- The VPIC shall be liable for the damages of the land resulting from any negligence except from damages occurring due to act of God, such as earthquakes, landslides, etc.

The Landowner agrees to discharge the following duties and responsibilities: В.

- The land is free from encumbrances. The landowners have given the land to the VPIC, with the understanding that it has been discussed and concurred with the family members, clans, dorbar shnongs, hima, nokmas, etc.
- 11. The landowner, under no circumstances shall reclaim back the land within the agreement period unless the VPIC violates the terms and conditions as specified in the section "A" above.
- 12. The landowner submits copies of the records to ascertain the ownership status of the land.

- 13. The landowner shall have the right to enter the land to inspect and make observations, but he/she/they should be accompanied by selected members of the VPIC.
- 14. The landowner shall have no right to do any land development activities on the land during the agreement period, without the prior consent of the VPIC.

	period, without the prior consent of the VPIC.	
C.	Validity of the Memorandum of Agreement	
15.	This MoA is valid as per the period specified above	, from the date of signature by both the parties.
16.	meaning of the agreement and any other dispute a unsettled issues shall be referred to the DPM of	utes relating to the scope, extent of interpretation and rising thereof shall be decided by mutual discussions. All (name ose decision on the matter shall be final and binding on
n wit	ness thereof the aforesaid parties herein put their sig	nature and seals on the day, month and year first written
above	2.	
_	ture and Seal of the First Party or authorised	Signature and Seal of the Second Party or authorised person thereof
Repre	esented by (Please Write Name below)	Represented by (Please Write Name below)
n the	e presence of witness	In the presence of witness
4		
1		1
2		2
Date:		Date:

(Attach Photograph of main signatories)

Screening of Environmental and Social Management System Framework for Construction of Community Hall

			Is this likely to result in a
	Questions to be considered	Yes/No?	significant effect? Yes/No/? Why?
1.	Will construction activity of the Project involves actions which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)?		
2.	Will Construction activity of the Project use natural resources such as land, water, materials or energy, especially any resources which are		
	non-renewable or in short supply? Will the Construction activity of the Project involve use,		
3.	storage, transport, handling or production of substances or materials which could beharmful to human health or the environment or raise concerns about actual or perceived risks to human health?		
4.	Will the Construction activity of the Project produce solid wastes during construction, operation, or decommissioning?		
5.	Will the Construction activity of the Project release pollutants or any hazardous, toxic or noxious substances to air?		
6.	Will the Construction activity of the Project cause noise and vibration or release of light, heat energy or electromagnetic radiation?		
7.	Will the Construction activity of the Project lead to risks of contamination of land or water from releases of pollutants onto the groundor into surface waters, groundwater, coastal wasters or the sea?		
8.	Will there be any risk of accidents during the Construction activity of the Project which could affect human health or the environment?		
9.	Are there any areas on or around the location which is natural habitat of any rare/ endangered/ threatened floral or faunal species which could be affected by the construction activity of the Project?		
10.	If yes what mitigation measures taken for that?		
11.	Are there any areas on or around the location which are protected under Wildlife Conservation Act which could be affected by the construction activity of the Project activity?		
12.	Are there any other areas on or around the location which are important or sensitive for reasons of their ecology e.g. wetlands, or other water bodies, mountains, forests which could be affected by the construction activity of the Project?		
13.	Does the construction activity of the Project activity leads to disturbance in the normal life, ethnicity, culture of the local people? If so what mitigation measures are taken?		
14.	Does the construction activity of the Project activity require relocation of human habitat? If so, what measures taken for their rehabilitation?		

15.	Is the construction activity of the Project location susceptible to earthquakes, subsidence, landslides, erosion, flooding or	
	extreme or adverse climatic conditions e.g. temperature	
	inversions, fogs, severe winds, which could cause the	
	construction activity of the Project to present	
	environmental problems?	

Screening Result- A/B/C

- **Category-A-** works with complicated or unprecedented impacts that are difficult to assess, or construction activity of the Projects with a wide range of impacts or irreversible impacts, are also classified as Category A.
- **Category-B-** Proposed construction activity of the Projects are classified as Category B if their potential adverse impacts on the environment and society are less adverse than those of Category A construction activity of the Projects.

e.g.

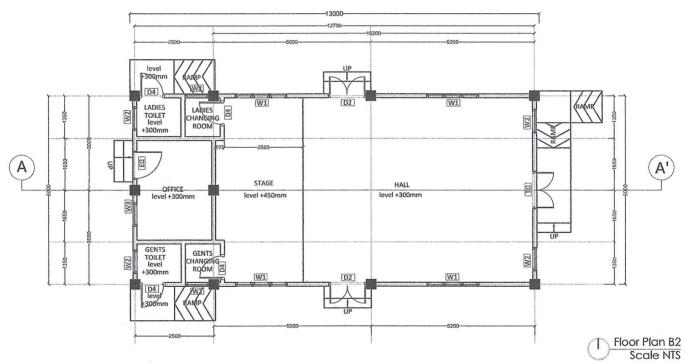
- Development of infrastructure or building where endangered species listed in Wildlife Act (1972) or their habitat are existed
- Building more than 20,000 square meters.
- Small-scale involuntary resettlement and land acquisition (more than 1 person)
- Other activities which fall into Category B in EIA Notification (2006)

Category-C- Proposed construction activity of the Projects are classified as Category C if they are likely to have minimal or little adverse impact on the environment and society."

SL NO	OTE :-	TOTAL AMOUNT INCLUSIVE OF 12% GST	12% GST	TOTAL AMOUNT AFTER DEDUCTING 12%	6% GST	TOTAL GST
1	PROPOSED COMMUNITY HALL CONCEPT FOR B2	₹ 7,00,000.00	₹ 84,000.00	₹ 6,16,000.00	₹ 36,960.00	₹ 1,20,960.00
2	PROPOSED COMMUNITY HALL CONCEPT FOR E2	₹ 7,04,000.00	₹ 84,480.00	₹ 6,19,520.00	₹ 37,171.20	₹ 1,21,651.20

Charen Civil Engineer.

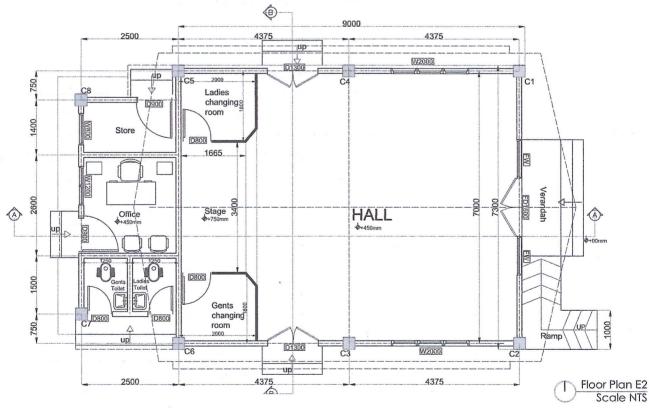




Concept B2 Room Dimensions & Area

SI. no.	NAME	DIMENSIONS	AREA
1.	HALL	6mX10.2m 19.6ftX33.4ft	61.2sqm or 658.73sqft
2.	CHANGING ROOMS	(1.47mX1.37m)x2 (4.8ftX4.5ft)x2	(2.04sqm or 21.95sqft)X2
3.	OFFICE	2.62mX3.42m 8.6ftX11.2ft	8.96sqm or 96.4sqft
4.	TOILET	(1.63mX1.47m)X2 (5.3ftX4.8ft)X2	(2.40sqm or 25.83sqft) X2
el Kroniviji di suli	TOTAL	ergene ⁿ e og ginn til skikkliste i det formår rålligde her en summålet et kog er ense	81.9 sqm or 881.5sqft





Concept E2	Room	Dimensions	&	Area

NAME	DIMENSION	AREA
Hall (including changing rooms)	9mx7.3m (30ftx24ft)	65.7sq.m 720sq.ft
Toilets (ladies and gents)	2.65mx1.65m (8.7ftx5.4ft)	4.4sq.m 46.98sq.ft
Office	2.65mx2.6m (8.7ftx8.5ft)	6.9sq.m 73.95sq.ft
Store room	2.65mx1.55m (8.7ftx5.1ft)	4.1sq.m 44.37sq.ft
TOTAL AREA		81.1sq.m 873sq.ft

TOTAL PLINTH AREA (Excluding verandah and steps)=81.1sq.m=873sq.ft TOTAL AREA (Including verandah,ramp and steps)= 94.6sq.m=1018sq.ft

NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT -B2

SI.No	Particulars	Nos	L	В	D	Qnty	unit	Rate	Amount
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4/0.4.7.3	factings of column/walls retaining	PB							
1/2.1 (a)	walls, septic tank etc. including	3	2.50	0.40	0.60	1.80	cum		
	bailing out water where necessary	2	5.00	0.40	0.60	2.40	cum		·
	and removal of surplus earth with all	2	5.20	0.40	0.60	2.50	cum		
	lead and lifts as directed and specified	4	3.00	0.40	0.60	2.88	cum		
	for the following classification of soils.	PB1							
		1	6.00	0.40	0.60	1.44	cum		
					Total	48.20	cum	₹ 213	₹ 10,265.75
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	Providing soling with stone/ best			ΤŤ					
	quality picked jhama brick, sand	F1				ŀ			
	packed and laid to level and in panel	10	1.30	1.30	1.00	16.90	cam		
/12.5 (b.i)	after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.	10	1.30	1.30	1.00	10.90	sqm		
				ļ			ļ <u>.</u>		1
			!		Total	16.90	sqm	₹ 415	₹ 7,013.50
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	walls, brick works etc below plinth	F1							
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3/5.1 (b)	including dewatering if necessary,	10	1.30	1.30	0.10	1.69	cum		
	and curing complete (shuttering	<u> </u>							
	where necessary shall be measured								
	and paid separately).				Total	1.69	cum	₹ 7,601	₹ 12,845.69
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		10	4	6.15	2.470	607.62	kg		-

Supplying, fitting and fixing in position reinforcement bars up to 1st floor level, conforming to relevant I.S. Code for R.C.C. work/RB walling including straightening, cleaning, cutting and bending to proper shapes and 4/6.11 (b) length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (Rates inclusive of all wastage, lappage, hooks, chairs, anchorage etc. and no measurement for the same is required)

Кġ 0.00 10 56 1.40 0.395 306 92 kc 10 56 1.00 0.395 219 23 kg PLINTH BEAM PB: L = 2.50m 16mmΦ: 3 4 2.50 1.580 47.40 kg 0.00 3 2 2.50 0.890 13.35 kg 0.00 3 20 1.20 0.395 28.77 kg PB: L = 5.00m 16mmΦ: 2 5.00 1.580 63.20 kg 0.00 2 2 5.00 0.890 17.80 kg 0.00 2 39 1.20 0.395 37.41 kg PB: L = 5.20m 16mmФ: 2 4 5.20 1.580 65.73 kg 0.00 2 2 5.20 0.890 18.51 kg 0.00 2 41 1.20 0.395 38.87 kg PB: L = 3.00m 16mmΦ: 4 4 3.00 1.580 75.84 kg 0.00 4 2 3.00 0.890 21.36 kg 0.00 4 24 1.20 0.395 45.65 kg PB1: L = 6.00m 16mmΦ : 6 6.00 1.580 113.76 kg 0.00 2 47 1.40 0.395 52.15 kg BEAM B1: L = 5.00m20mmφ;

8 5

1,580

389.88

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5/	Form work/ Shuttering							· <u>.</u>	
		FOOT	INGS			ļ			
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	Foundations, footings, bases of	10	4.00	1.20	0.25	12.00	sam		
	columns, etc. for mass concrete				<u> </u>		<u> </u>		
	(using steel).	BASE	S OF C	DLUMN	IS	<u> </u>	ļ		<u> </u>
	'	10	4.00	0.35	2.00	28.00	sqm		
					Total	40.00	sqm	₹ 251	₹ 10,040.00
			<u> </u>	<u> </u>	ļ	 _	 	<u> </u>	
		PLIN	TH BEA	4			<u> </u>		
		PB			1	l			
		3	2.50	1.00	0.70	5.25	sqm		
		2	5.00	1.00	0.70	7.00	sqm		
		2	5.20	1.00	0.70	7.28	sqm		
		4	3.00	1.00	0.70	8.40	sqm		
		PB1		1.00					
	Links because what because	2	6.00	1.00	0.80	9.60	sqm		
	Lintels, beams, plinth beams, girders, bressumers and			1.00		0.00			
5/4.16	cantilevers with water proof ply 12 mm	BEA	M	1.00					
	thick	В		1.00					
		3	2.50	1.00	0.70	5.25	sqm		
		4	3.00	1.00	0.70	8.40	sqm		
	!	B1	1	1.00		1	11		<u> </u>
		2	5.00	1.00	0.90	9.00	sqm	1	<u> </u>
		2	5.20	1.00	0.90	9.36	sqm	†	
		2	6.00	1.00	0.90	10.80	sqm		
					Total	80.34	sqm	₹ 595	₹ 47,802.30
	Columna Dillara Diara Abustasanta		UMNS						
5/4.5	Columns, Pillars, Piers, Abutments, Posts and struts (using steel).	10	1.40	1.00	3.00	42.00	sqm		
	to data drata (using steer).				Total	42.00	sqm	₹ 609	₹ 25,578.00
		SLAI				<u> </u>	ļ	-	
.	Slabs, roofs, landings, balconies and	SLAI 2	3.30	3.80	1.00	25.00	0000		
5/4.3	access platform, shelves (using steet)		ა.ა∪	3.60	1.00	25.08	sqm		<u> </u>
	, , ,				Total	25.08	sqm	₹ 581	₹ 14,571.48

			1			<u> </u>	1		
		<u> </u>		<u> </u>	4				
			TINGS	!	<u> </u>		Ì		
		$F_{-}^{F_1}$						Ĺ	
		_	angular					T	
		10	1.20	1.20	0 25	3.60	cum		
		Trap	ezoidal	<u>.</u>					
	Description of the second	-	A1	A2	h	<u></u>		(n/3*(A1+	A2+SQRT(A1*A2
	Providing and laying in position	10	1.44	0.12	0.20	1.32167	cum		
	specified grade of reinforced cement concrete, excluding the cost of	_		<u> </u>	<u> </u>				
010 4 115	contarion about the Control		ES OF C			<u> </u>			
6/6.1 (b)	reinforcement. All work up to plinth	10	0.35	0.35	2.00	2.45	cum		
	level: (b) M20 or 1:11/2:3 (1		TH BEA	M	<u></u>		l		
	cement: 1.5 coarse sand: 3 graded	PB							
	stone aggregate 20 mm nominal size)	3	2.50	0.25	0.35	0.66	cum		
		2	5.00	0.25	0.35	0.88	cum	 	
		2	5.20	0.25	0.35	0.91	cum	† 	
		4	3.00	0.25	0.35	1.05	cum		
		PB1							
		2	6.00	0.30	0.40	1.44	cum		
					Total	12.30	cum	₹ 9,336	₹ 1,14,860.03
7/6.2 (b)	walls (any thickness), including attached pilasters, buttresses,	10	JMNS 	0.35	3.00	3.68	cum		
					Total	3.68	cum	₹ 9,923	₹ 36,467.03
		PLINT	H BEAN	1					<u></u>
	Random rubble masonry with hard	PB							
	stone in foundation and plinth	3	2.50	0.40	1.00	3.00	cum		
	including levelling up with cement	2	5.00	0.40	1.00	4.00	cum		
	concrete 1:6:12 (1 cement: 6	2	5.20	0.40	1.00	4.16	cum		
	coarse sand: 12 graded stone	4	3.00	0.40	1.00	4.80	cum		
	aggregate 20 mm nominal size) up to plinth level with:	PB1							
	piniutiovoi wilit.	2	6.00	0.40	1.00	4.80	cum		
					Total	20.76	cum	₹ 6,098	₹ 1,26,594.48
		Volume of excavation item no. 1/2.1.			a)	48.20			
			e of Stor ation fror bb(i)			-1.69			

		Grand Total= ₹ 7,00,786.							
						Add 2% fo			= ₹ 13,740.92
		1							= ₹ 6,87,0 4 5.81
					Total	33.47	cum	₹ 141	₹ 4,719.28
		1	12.70	6.00	0.29	21.72	cum		
		Floor	ring						
	up to 1.5m.	Volume of Stone Masonary in foundation from item no. 9/8.			onary in o. 9/8.1	-20.76			
10/2.6 (a)	etc in layers not exceeding 20cm thick including breaking of clods, consolidating each layer by ramming and watering, lead up to 50m and lift		e of Cond ation from b		0.	-12.30			
	trenches, plinth, sides of foundation	sides of foundation from item no. 3/5 1 0							

(Rupees Seven Lakh Only)

Note:As per the Meghalaya P.W.D (B) SOR 2021-2022 the effect of GST on work contract @ 12% has been incorporated in all

Asstt. Engineer Jwatbor Cajee & Associates Architects: Engineers: Designers Project Management & Turnkey Solutions

Ar. Jwatbor, Shajee

CEO & Chief Associates

Jwatbor Cajee & Associates

Jwatbor Cajee & Turnkey Solutions

Architects: Engineers: Designers

Architects: Engineers: Turnkey Solutions

Project Management & Turnkey

SL NO	OTE :-	TOTAL AMOUNT INCLUSIVE OF 12% GST	12% GST	TOTAL AMOUNT AFTER DEDUCTING 12%	6% GST	TOTAL GST
1	PROPOSED COMMUNITY HALL CONCEPT FOR B2	₹ 7,00,000.00	₹ 84,000.00	₹ 6,16,000.00	₹ 36,960.00	₹ 1,20,960.00
2	PROPOSED COMMUNITY HALL CONCEPT FOR E2	₹7,04,000.00	₹ 84,480.00	₹ 6,19,520.00	₹ 37,171.20	₹ 1,21,651.20

Civil Engineer.

NAME OF WORK: PROPOSED COMMUNITY HALL CONCEPT-E2.

Rate as per the Meghalaya P.W.D (Building) S.O.R for 2021-2022

SI.	Description of item	No.	L	В	D	Qnty	Unit	Rate	Amount
	2.1(a)/P-3: Earthwork in	2	1.2	1.20	1.800	5.18	eum		
	excavation upto a depth of 2m below the existing ground level for	4	1.4	1.40	1.800	14.11	eum		
	foundation trenches of foundations, footings of column/ walls, retaining	. 2	1.6	1.60	1.800	9.22	cum		
1	walls, septic tank etc. including bailing out water where necessary	1	5.5	0.55	0.700	2.12	eum		
	and removal of surplus earth with all lead and lifts as directed and	3	7.00	0.55	0.700	8.09	cum		
	specified for the following classification of soils.(a) All kind of	2	2.5	0.55	0.700	1.93	çum		
	soil(Ordinary soil/hard soil/dense soil)	4	4.375	0.55	0.700	6.74	cum	1	
_					Total	47.38	cun	Rs.213.00	Rs. 10,091.30
		2	1.2	1.20	-	2.88	sqn		
		4	1.4	1.40	<u> </u>	7.84	sqm	ı <u>.</u>	
	12.5(b) (i)/P-45:	2	1.6	1.60	-	5.12	sqn		
	Providing stone soling in toundation and under	1	5.5	0.55	<u> </u>	3.03	sam		
	floor with stone/ best	3	7.00	0.55	<u> • </u>	11.55	sqn	ı	
	quality picked jhama	2	2.5	0.55	-	2.75	sqm		
	brick, sand packed and	4	4.375	0.55	-	9.63	sqm	1	
2	laid to level and in panel	1	2.5	5.50	-	13.75	sqm		
	after preparing the subgrade as directed	2	4.375	7.00	-	61.25	sqn		
	includinbg all labour and	1	1.20	0.80	-	0.96	sqm	1	
	materials and if necessary	1	2.65	0.75	+	1.99	sqn	1	
	dewatering, complete.(b)	2	1.55	0.80	<u> </u>	2.48	sqn	1	
	Stone soling (i)100mm	1	1.30	0.90	<u> </u>	1.17	sqn		
		<u> </u>	3.00	1.60		4.80	sqn	1	
		1	3.40	1.00	<u> </u>	3.40	sqn		
					Total	132.59	sqn	Rs.415.00	Rs. 55,023.81

	5 1775 (75 (75 (77 187))				T	1	- 1	T	'T		
	5.1(b)/2-9: Plain coment concrete works with		2		1.2	1.20	0.100	0.29	cum		•
	coarse aggregate of sizes 13mm to 32mm in		4		1.4	1.40	0.100	0.78	cum		
	foundation bed for footing steps, walls, brick		2		1.6	1.60	0.100	0.51	cum		
	works etc. as directed and		1		5.5	0.55	0.100	0.30	cum		
3	specified including dewatering if necessary,		3		7.00	0.55	0.100	1.16	cum		
	and curing complete (shuttering where		2		2.5	0.55	0.100	0.28	cum		
	necessary shall be measured and paid		4	_	4.375	0.55	0.100	0.96	cum		
	separately).(c) 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate		1		2.5	5.50	0.100	1.38	cum		
	20mm nominal size)		2		4.375	7.00	0.100	6.13	cum		
							Total	11.78	cum	Rs.7,601.00	Rs. 89,532.18
							1	-		113.7,001.00	183. 69,332.16
	8.1 (a)/P-19: Random rubble masonry with hard stone in foundation and		1		5.5	0.45	0.750	1.86	cum		
4	plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand; 12 grade stone qaggregate 20mm nominal size) up to plinth level with: (a)		3		7.00	0.45	0.750	7.09	сит		
			2		2.5	0.45	0.750	1.69	cum		
	cement mortar 1:6 (1 cement: 6 coarse sand)		4		4.375	0.45	0.750	5.91	cum		
_							Total	16.54	cum	Rs.6,098.00	Rs. 1,00,845.68
		·		No.		L	Unit weight	Qnty	Unit		
		FOC		١G							
	fitting and fixing in position reinforcement	4	2	1	10	1.20	0.889	85.34	kg		
	bars upto 1st floor level.	_		-				<u> </u>	 _ 		
	conforming to relevant	4	2	1	10	1.40	0.889	99.57	kg		
	I.S. Code forR.C.C. work/ R.B. walling including			Ė,	'		2.007		1 "5		
	straightening, cleaning,			П	_	_		 -	 		
	cutting and bending to	2	2	1	10	1.60	0.889	56.90	kg	-	
	proper shapes and length as per details.										
		PLI		BE	AM						
j		<u>l</u>	4	1	1	6.20	1.580	39.18	kg		
l	<u>.</u>	1	l	2	1	2.07	1.580	6.53	kg		

_						 -	3115	27.02	Kg	1	
Γ		1	57	1	1	1.20	0.395	2/3/2	VE		
5 .	_		_	_				. 15.00			
		3	4	1	1	7.70	1.580	145.99	Kg		
	supplying and binding	3	1	2	1	2.57	1.580	24.33	kg.		
	with 20G annealed black	3	71	1	1	1.20	0.395	100.96	kg		
-	wire and placing in										
1	position with proper	2	4	1	1	3.20	1.580	40.45	kg		
	blocks, supports, chairs.	2	1	2	1	1.07	1.580	6.74	kg		
}	spacers etc.	2	30	1		1.20	0.395	28.53	kg		
l	complete.(Rates inclusive	_	.7(/	<u> </u>	_ -						
	of all wastage, lappage. hooks, chairs, anchorage		4	1		5.03	1.580	127.03	kg		
	etc. and no measurements	4				1.68	1.580	21.17	kg		
1	for the same is required)	4	1	2				88.51	kg		
1	(b) High Yield Strength	4	4 7	1	1_1_	1.20	0.395	86.31	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		
ļ	Deformed bars or Tor			L_	<u> </u>		\ -		├		
1	Bars	C	olum	ın			├				
		8	8	1	1	6.05	1.580	611.78	k <u>e</u>		
		8	47	1	1	1.40	0.395	207.93	kg		
		8	47	1	1	1.20	0.395	178.22	kg		
			1	1			total=	1896.18	kg		
			T		 		or=	18.96	qntl	Rs.10,936.00	Rs. 2,07,366.56
		-	t^-	T	†		1				
			1	1_	1	<u> </u>	1	• • •			
	4.1/P-7: Shuttering/		8		1.20	-	0.300	2.88	sqm		
	Formwork Centering and	┢			-	1		(50			
	shuttering including		16		1.40	-	0.300	6.72	sqm		
	strutting, propping etc.	-			 		†	2.04			
	and removal of form for		8		1.60	-	0.300	3.84	sqm		
6.1	all heights complete and	\vdash		_	+				T		
0.1	as directed by engineer in										
	charge Foundations,			_		<u>.</u>			1 1	-	
	Footing, bases of columns, etc. for mass		Col	umi	i below j	olinth			. 1	+	
	concrete (using steel)								1 1		
	concrete (using steer)		32		0.35	-	1.350	15.12	sqm		
							Total	28.56	sqm	Rs.251.00	Rs. 7,168.56
		1					1		 		
	4.5/P-7: Columns, Pillar,						1	 	1 1		
6.2			32		0.35	-	3.300	36.96	sqm		
	and Struts (using steel)						1				
							Total	36.96	sqm	Rs.609.00	Rs. 22,508.64
		_									
		Plit	oth b	can	ns						
		Г	2		5.50	-	0.350	3.85	sqm		
			6		7.00	1 -	0.350	14.70	sgm		
	4.4/P-7: Lintel, Beam,		4		2.50	-	0.350	3.50	sqm		. 10 11 1 101 0 0
6.2	Plinth beams, girder,	 	8		4.38	-	0.350	12.25	sqm		
6.3	bressumer and cantilever	Bea	am			1	1				
	(using steel)		2		5.50	-	0.400	4.40	sqin		
			6		7.00		0.400	16.80	sqm		
l .	1				1				1 ~4		

		_1	2.50	-	0.400	4,00	sqm		
		8	4.38	-	0,400	14,00	sem		
					Total	73.50	sqm	Rs.486.00	Rs. 35,721.00
		2	1.2	1.20	1,800	5.18	cum		
		1	1.4	1.40	1.800	14.11	cum		
		2	1.6	1.60	1,800	9.22	cum		
	2.6(a)/P-4: Earthwork in	ı	5.5	0.55	0.700	2.12	cum		
	filling (excluding rock) in	3	7.00	0.55	0.700	8.09	cum		
	trenches, plinth, sides of	2	2.5	0.55	0.700	1.93	cum		
	foundation etc in layer	4	4.375	0.55	0.700	6.74	cum		
	not exceeding 20cm thick								
7	including breaking of	deduction							
	clods, consolidating each layer by ramming and	2	1.2	1.20	0.500	-1.44	cum		
	watering, lead up to 50m	4	1.4	1,40	0.500	-3.92	cum		
	and lift up to 1.5m. (a)	2	1.6	1.60	0.500	-2.56	cum		
	with available excavated	8	0.35	0.35	1.350	-1.32	cum		
	earth	1	5.5	0.45	0.600	-1.49	cum		
		3	7.0	0.45	0.600	-5.67	cum		
		2	2.5	0.45	0.600	-1.35	cum		
		4	4.375	0.45	0.600	-4.73	cum		
					Total	24.90	cum	Rs.141.00	Rs. 3,511.46
]						
	6.1(b)/P-11: Providing	2	1.2	1.20	0.500	1.44	cum	``	
	and laying in position in position specified grade	4	1.4	1,40	0.500	3,92	cum		
	of reinforced cement concrete, excluding the	2	1.6	1.60	0.500	2.56	cum		
8	cost of centering. shuttering, finishing and	8	0.35	0.35	1.350	1.32	cum		
	reinforcement- All work up plinth level: (b) M20	1	5.5	0.25	0.350	0.48	cum		
	or 1:11/2:3 (1 cement: 11/2 coarse sand: 3 grade	3	7.0	0.25	0.350	1.84	cum		
	stone aggregate 20mm	2	2.5	0.25	0.350	0.44	сит		
	nominal size)	4	4.375	0.25	0.350	1.53	cum		
		,			Total	13.53	cum	Rs.9,336.00	Rs. 1,26,320.7

(Rupees Seven Lakhs Four Thousand Only)

NOTE: As per The Megghalaya P.W.D (B) SOR 2021-2022 the effect of GST on work contract @ 12% has been incorporated in all the items.

Ar. J.S Cajee

CEO & Chief Architect

Jwatbor Cajee & Associates
Architects:Engineers:Designers

Project Management & Turnkey Solutions

Assit! Engineeyang
Jwathor Cajee & Associates
Architects; Engineers: Designers
Project Management & Turnkey Solutions

List of Project Villages for Community Hall Construction Capacity Building at Garo Hills Region

District	Block	Village				
	DOMBO RONGJENG	Thaugittim				
	DOMBO RONGJENG	Rongchong				
	DOMBO RONGJENG	Nengkongkil				
	DOMBO RONGJENG	Gindil				
	DOMBO RONGJENG	Badilpa				
	DOMBO RONGJENG	Miktongjeng				
	DOMBO RONGJENG	Dogep Gipuram				
	DOMBO RONGJENG	Simseng Balkol				
	DOMBO RONGJENG	Simseng Wale				
	DOMBO RONGJENG	Simseng Rongal				
	DOMBO RONGJENG	Simseng Aringga				
	DOMBO RONGJENG	Simseng Gading				
	DOMBO RONGJENG	Chibilbang				
	DOMBO RONGJENG	Mejolgre Nokat				
	DOMBO RONGJENG	Simseng Bolma				
	DOMBO RONGJENG	Rongchek Akong				
	DOMBO RONGJENG	Dagal Nokat				
	SAMANDA	Dorakgre				
	SAMANDA	Jongmegre				
	SAMANDA	Gitokgre				
	SAMANDA	Meronggre				
# -	SAMANDA	Jingamgre				
EGH	SAMANDA	Chonggigre				
	SAMANDA	Bansinggre				
	SAMANDA	Sawilgre				
	SAMANDA	Kalak Songgital				
	SAMANDA	KalakDorek				
	SAMANDA	RongriboAmalgre				
	SAMANDA	RongriboWatregre				
	SAMANDA	Rongkinggre				
	SAMANDA	Rongchek Manda				
	SAMANDA	Bandigre				
	SAMANDA	Rengregre				
	SAMANDA	Rapdikgre				
	SAMANDA	KalakSonggitcham				
	SONGSAK	Dangkong Gilmatdam				
	SONGSAK	Rongrang Nokat				
-	SONGSAK	Asil Chiringgre				
	SONGSAK	Asil Songgital				
	SONGSAK	Danal Dasik				
-	SONGSAK	Danal Megapgre				
	SONGSAK	Kentra				
	SONGSAK	Resagre				
	SONGSAK	Rongrong Songgitcham				

List of Project Villages for Community Hall Construction Capacity Building at Garo Hills Region

District	Block	Village				
	SONGSAK	Watenangre				
_	SONGSAK	Rongronggre				
EGH	SONGSAK	Danal Apal				
Щ	SONGSAK	Mandalang Akoksi				
	SONGSAK	Bolsongchok				
		Rimrangpara Bajigre				
		Mandanggre				
		Dopnangre				
		Soropagre				
		Chollongpara				
		Rimrangpara Asim				
		Upper Mibonpara				
		Chasinpara				
		Ajugre				
		Ranggapara				
	2.	Pathanggre				
	DALU	Sangjeng- Nokat				
		Sandongpara				
		Akinpara				
		Basulpara				
		Sangjengpara				
		Selbalgre				
		Somgmagre				
		Mandagre				
_		Rangdapara				
MCH		Darenggagiri (Darangagre)				
≱		Possenggagre				
		Abendagre				
		Balikimgiri				
		Jarimpara				
		Kapogre				
		Rajinpara				
		Santogre				
		Sisogiri				
	ш	Wakolanggre				
	GR.	Dana Bollonggre				
	BĒ	Dorenggri				
	GAMBEGRE	Galwanggre A				
	75 □	Galwanggre B				
		Jawakgri				
		Nalnapara				
		RongareAdinggre				
		Sampalgri				
		Kerupara				
		Tochapara				
		Dadokgre				

	RONGRAM	Adinggre Nokatgre
	2101,014 111	Bibragre
		Chandigre
		Sasatgre
		Tosekgre
		Anogre
		Chinapgre
		Dirikgre
		Gindopara
		Manggakgre
		Renchagre
		Silsakgre
		Teksragre
		Adugre
		Bugakolgre
		Gambarigre
		Daljagre
	TA	Goeragre
WGH	Σ	Marakapara
×	R	Bawegiri
	TIKRIKILLA	Dildigre
	•	Mengotchigre
		Bolsaldamgre
		Lower Khongrapara
		Nayapara
		Rabukong
		Belguri
		Borogobol
		Dotrongre
		Khasipara
		Lower Rembigiri
		Mothapara
		Kurung
		Pedaldoba (Rabha)
		Megonggiri Watahu ara
		Kotchugre
		Naguapara
		Upper Rembigiri
		IllaRongchim
		Mitegittim
	TA	Remagittim
ェ	TU.	Imsambal
NGH	RK	Dokongsi C
	KHARKUTTA	Kalwe
	Ξ	Mandadrop
		Rangsa
		Rajasimla Songgital

District	Block	Village
21001100	21001	ChibraJambal
	· ·	Lower Jambal
	LL	Lower Sare Awe
	KU	Upper Sare Awe(Reserve)
	KHARKUTTA	Memilam
	KH	Imbeng Akong/Adap
		Jajilgittim
		Rongpetchi
		Chore Pahar
		Ajasiram
		Nokatgre
		Rongmatcha
		Gambil Apal
NGH		Bangsi Aga
ž		
	RA	Bangsi Bokda
	PA.	Bangsi Dogru
] SEL	Bangsi Minol
	JUE	Thapa Dajonggre
	RESUBELPARA	Thapa Dangre
		Thapa Darenchi
		Thapa Matronggre
		Thapa Ragolgre
		Thapa Rongdeng
		Rompa
		Galwangsa
		Nanil Apal
		Dokasaram
		Chramgre
		Darit Asim
		Gare Chigitchak
		Era aning
		Gare Nengjabing
		Jadigittim
	4	Rongsa Awe
	.R.	Dobakol Awemong
SGH	M_{A}	Rongkandi Nengbrekgittim
SC	HO	Rongkandi Songgital
	BAGHMARA	Darang Akepgittim
	—	Darang Boldak
		Darang Chiga
		Darang Nengsranggittim
		Sudugre
		Rongkandi Dengjama
		Dobakol Chenggalgittim
		Darang Dura
		Dailang Daila

District	Block	Village
		Atabenga
		Ginengkolsi Songgital
		Gnengkolsi Songgitcham
		Kalsigre
		Andamarigre
		Balmoragre
		Darit Simragittim
		Darit Wacholgre
		Genabra
	GASUAPARA	Nilwasagre
	\ AP.	Rongchonggre
	7∩\$	Tebisokgre
	34.5	Wagebokgre
		Wakskogre
		Watregre
		Dompaigre
		Galwanggitok
		Karawengre
_		Rangmai Aruakgre
SGH		Rangmai Chigitchak
		Ruatsogre
		SilkiAdu
		Amonggre
		Dombuk Atong
		Gulpani Nokat
		Gulpani Songmong
		Inolgre
		Kasarisora
	4	Kunchung Songmong
	RONGARA	Nengsra
	ZG/	Rona Agal
	KON	Seelpang
	<u>μ</u>	Taidang
		Bolbokgre
		Bolchugre
		Dilsinggre
		Gaobari
		Toklekbari
		Wachal Chiring

District	Block	Village		
		Rongsang Abagre		
		Arenggre		
		Rongsang Songma		
		Skagre		
		Kasibil		
		Golmangre		
		Ajonggre		
		Bolsal Dobokgre		
	D Z	Chiringpara		
	BETASING	Nepalgre		
		Jongchetpara Songma		
1		Jongchetpara Nokat		
		Jelbongpara Songma		
		Jelbongpara Nokat		
		Kolkatola		
		Salbari		
		Mokpara		
		Lutubari		
		Mosheshbathanpara		
HB		Marpara		
SWGH		Koraitola		
• •		Ritekpara		
		Dengnagre		
	ZIKZAK	Boldorenggre		
		Ullubaripara		
		Noonmati		
		Rongkaigre		
		Dombagre		
		Malmua		
		Nokatgre		
		Ghilajuri		
		Melapara		
		Torangpara		
		Bhoirakupi Nolbari		
		Wagepara		
		Tarapara		
		Wadagre		
		Songmagre		
		Baghana		
		Patijora		

List of Project Villages for Community Hall Construction Capacity Building at Khasi Hills Region

District	Block	Village		
		Laitmynsang		
		Mynsang		
		Mawsir		
		Pashang		
		Mynriah		
	Mawkynrew	Mawsna		
		Pomlahier		
EKH		Iapshyndeit		
`	Mawryngkneng	KsehPyndeng		
		Sylleibah		
		Nongthyllep		
		Mawkyi		
		Mawlumkhri		
WKH	Mairang	Patharlyndan		
		Bleishah		
DI DIIOI	UMLING	Umdennongtluh		
RI BHOI		Umden Khasi		
		Wahpipa		
	UMSNING	Mawkorblang		
		Sain urbania		
		Umnongkrem		
		Patharan		
		Domtynrong		
		Mawksiar		
		Pawphlang		
		Phottdei		
SWKH	Mawkyrwat	Mawiong		
		Tlangpui		
		Tuidam		
		Tuituk		
	SAIPUNG	Situng		
EJH		Sialkan		
		Shiabnai		
		Lapangap		
		Pdeniadaw		
		Senaro		
WJH	THADLASKEIN	Umjalisiaw		

<u>Guideline for Quality Checking of Construction Material</u> <u>for all kind of construction works under MegLIFE</u>

The VPIC members that are entrusted with the task of quality checking, can contribute well, if they are aware of the basic checks and verification that can easily be done by a layman without relying on technical knowledge. This skill requires adequate literacy. Acquaintance with the English alphabets is mandatorily recommended.

Basic components that are largely consumed during construction are cement, water, aggregates (coarse and fine), bricks, reinforcement steel etc. Some basic ways to ensure the quality of raw materials are briefly mentioned hereunder. These guidelines are only indicative in nature and not comprehensive. Therefore the Field Engineers must ensure that all the technicalities shall be adhered to in all construction activities.

- 1. Cement- Various types of cement such as Ordinary Portland Cement (OPC), Portland Pozzolana Cement (PPC), Slag cement of various grades are used for joining bricks, for preparation of concrete, for plastering and flooring etc. Cement must be used within 3 months of its manufacturing, beyond which it loses its cementation property. Therefore, the quality of cement must be monitored in all earnest. Some easy tips are:
- ✓ The week of manufacturing is mentioned on each bag. This number varies from 1-52.
- ✓ Cement bag must be without any lumps or hardness when felt by hand.
- ✓ When hand is inserted in a freshly cut cement bag, it must feel warm.
- ✓ If taken on fingertips, cement must feel powdery and not coarse.



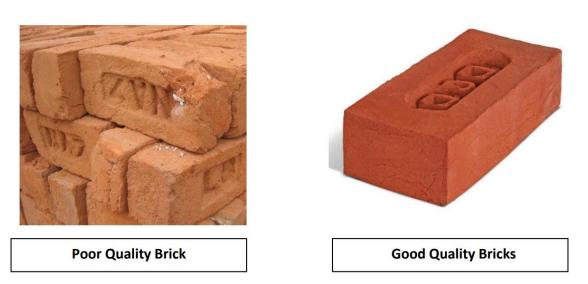
Manufacturer details on cement bag

2. Water: Water used for preparing cement mortar or Concrete, must be clean and free from injurious amounts of oils, acids, alkalis, salts, sugar, organic materials, or other substances that may be deleterious (harmful) to concrete or steel. Potable water is generally considered satisfactory for mixing concrete or preparing mortar.

3. Aggregates: Both coarse aggregates (stone /metal chips) and fine aggregates (sand) must be free from clay lumps, vegetation, organic waste etc. The stone chips must be of uniform size and have angular shape and they should be free from flaky materials and deformed edges.



4. Bricks: Bricks are used for constructing walls for different types of structures. The bricks must be having uniform size, well defined edges, well-formed edges. The central depression where, the name/ logo of the manufacturer is placed, also known as FROG must be deep enough to enable proper bonding between different layers. The bricks must produce a metallic sound when struck with the other. Keeping one brick vertical and the other perpendicular to it, drop the bricks from a height of approximately 1m height, the brick on top must break in to two equal parts.



5. Reinforcement steel: Reinforcement steel is essentially provided to impart strength to the concrete structures. The reinforcement steel being used in construction must be free from scales and rust. It should not be brittle or have any cracks on the surface.



Poor Quality Steel



Good Quality Steel

Cement and Reinforcement Steel are supplied with test certificates by the manufacturers. These must be matched with the specifications in the work order. Test certificates pertaining to each lot must be insisted upon and documented in a file kept at site. This is an essential requirement for ensuring quality at site.

6. Quality Checks during Construction stage

- i. While mixing concrete at site, the proportions (quantities and their respective ratios) of different ingredients must be checked for compliance with the one specified. Water: Cement ratio must be checked to ensure that the concrete being mixed has the desired workability. A simple way of doing this is the "LADDU TEST". Take a sample from the freshly mixed concrete enough to make a Laddu. Roll it between the palms just like you are making a Laddu by hand. After, the concrete has taken the shape of a Laddu, and toss it in the air as if a ball being thrown upwards, it should not come-off. If it comes-off, the desired workability is not there and the Water: Cement ratio must be revised.
- ii. This test is applicable for the concrete being mixed for rafts and foundations. For walls, the concrete requires additional workability to ensure that concrete can be compacted in thin sections. Before pouring concrete the form work (shuttering) erected to give concrete the desired/designed shape and size must be checked for line and level. It must also be ensured that there are no gaps between two adjacent shutters.
- iii. The reinforcement needs to be checked for ensuring that the spacing between two adjacent layers or bars is as specified in the drawing. Proper cover between the formwork and reinforcement must also be ensured. Proper compaction of cement must be ensured so that the concrete attains the designed strength. This is done using compaction vibrators. Compressive strength tests (cube tests) are an important part of concrete testing. It is done on a Compression Testing Machine in a laboratory. The cube test reports for both 7-day and 28-day compressive strength tests must be documented in a register. Check proper watering/ curing of concrete is done whilst constructing reservoir, pump stations, treatment plant etc. There should not be honeycomb in the structure.

7. Review of Work Progress

The time allocated for the work can either be defined in terms of days, weeks, fortnights or months. After the construction schedule is finalized, the VPIC must monitor the progress of each activity by correlating it with the time taken. The percentage progress may be marked in green directly below the activity, once the task is complete, or if other tasks can be begun simultaneously, the other activities may be allowed. Inclement weather may delay the progress, therefore, daily log of weather conditions, including rainy days must be kept recorded by the VCF. Similarly, the availability of labour, material and other resources also must be recorded.

Guideline for Community Contribution and Accounting

For construction, operation and maintenance of these constructions, VPIC may contribute 5% of the capital cost in cash and / or kind and /or labour. The VPIC Executive Committees may consider exempting individual contribution from the poor, specially-abled, single mother and socially excluded groups. Community contributions shall be accounted separately for audit purpose.

Community Contribution

- ✓ Contribution may be of minimum 5% or less of total capital cost depending on the decision of VPIC in form of cash/kind or labor or both.
- ✓ Willingness of local villagers to participate and instil a sense of ownership must be ensured.

Accounting

- ✓ A register is required to be maintained to record the receipt of cash contribution received from the community on regular basis before utilizing the fund.
- ✓ Opening separate bank account for contribution received with any scheduled commercial bank is encouraged. This will add to the trust as funds are not with an individual but a bank where all records are properly maintained.
- ✓ The mechanism with and develop ownership among them.
- ✓ This fund may also be utilized in future for maintenance etc.
- ✓ Prepare a plan on how to utilize the contribution received and maintain record of receipt and expenditure. Accounting will bring in transparency to the system.

Daily and annual O&M task

- ✓ VPIC while working as a public utility needs to look after certain day-to-day, service delivery, O&M tasks.
- ✓ Ensuring proper use of infrastructure, cleanliness etc.
- ✓ Carrying out minor repairs as and when required
- ✓ Hold periodic meetings and maintain record for the same.
- ✓ Facilitate inspection and functionality assessment by officials from BPMU/DPMU/SPMU.

Community Contribution Register

	Name of VPIC Member	Contribution Received					Signature of the VPIC
		In Cash (Rs.)	In Kind Material (sand/brick/cement etc. specify)		In terms of labour (days)		Member
			Type	Value (Rs.)	DLs	Value (Rs.)	
			Type	value (RS.)	DLS	value (RS.)	