

SNOWFOAM ENERGY PRIVATE LIMITED

House No. 99, Ward No. 8, Dhalpur, Kullu- 175101

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Full Title of the Project: Diversion of 0.5705 Ha. Of Forest land (instead of 0.5948 ha.)
for Construction of Hamshu-I SHEP 2.00 MW, Tehsil
Kullu Forest Division at Distt. Kullu (HP)

File No. :
Proposal No. : FP/HP/HYD/39463/2019
Date of Proposal : 23/11/2019

Check List No 28

Dumping Sites and Reclamation Plans

There is muck Generation, hence muck dumping sites are required. Detailed Reclamation plan along with Muck Dumping sites & their cross section has been attached.

Date.....

Place: Kullu

for Snowfoam Energy Pvt. Ltd.

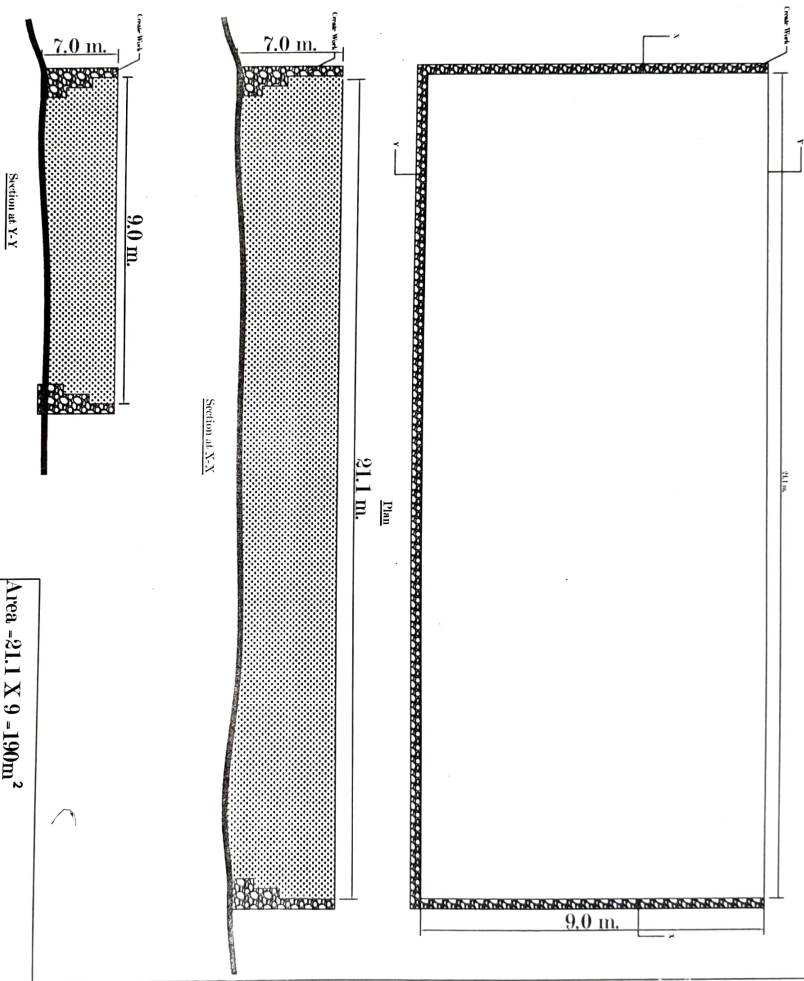
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Authorised Signatory

Countersigned By:-

[Signature]
Divisional Forest Officer
Kullu Forest Division Kullu

[Signature]
Range Forest Officer
Patlikuhat Forest Range

**HAMSHU SHEEP 2.00 MW
MUCK DUMPING SITE NO.-1**



Area - 21.1 X 9 - 190m²
 depth - 7.0 m
 Capacity of Muck Dumping - 190 X 7
 - 1329 cum

for Snow/foam etc.

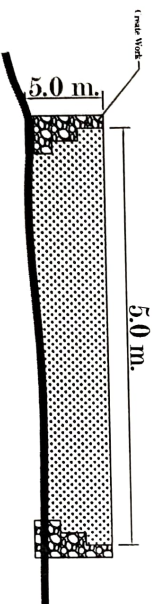
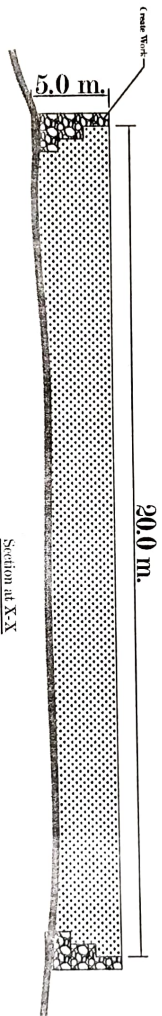
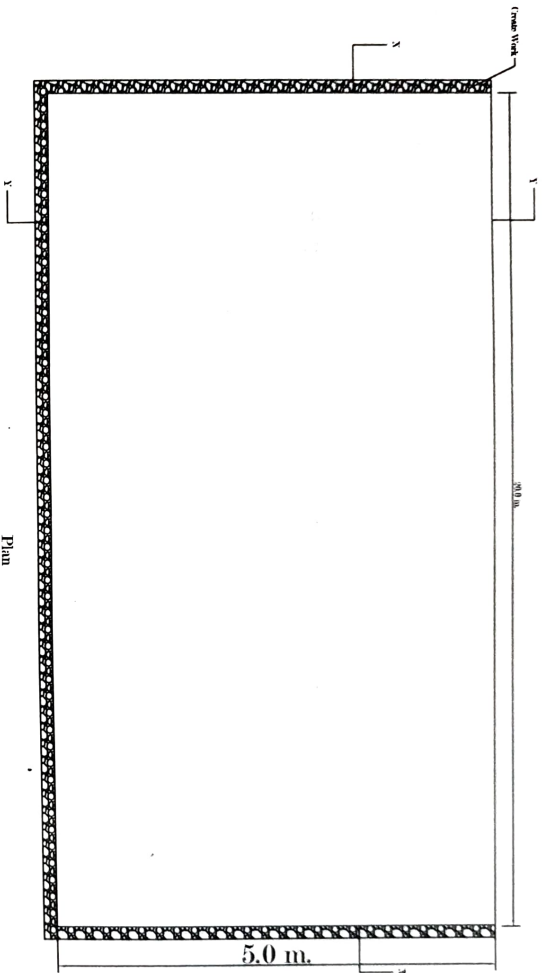
Authorised Signatory

Range Forest Officer
 Patilkhul Forest Range

Patilkhul Forest Range

HAMSHU-1 SHEP 2.00 MW

MUCK DUMPING SITE NO.-2



Area - 20 X 5 - 100 m²
 depth - 5
 Capacity of Muck Dumping - 100.0 X 5.0
 - 500 cum

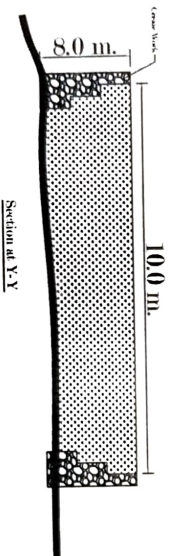
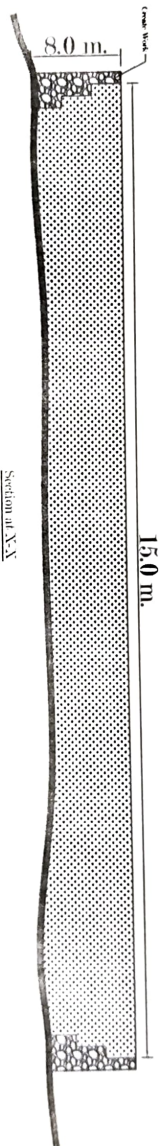
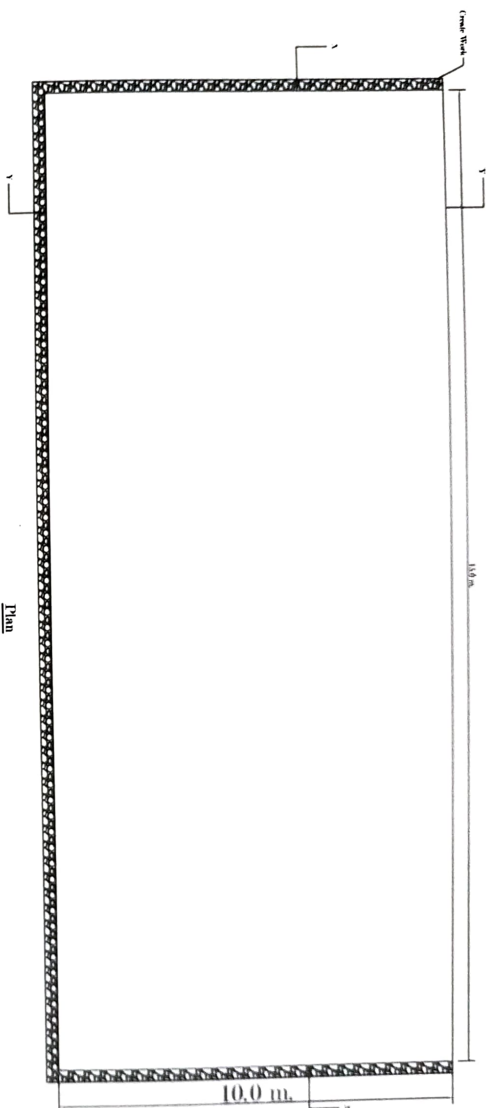
for Snowfarn Energy Pvt. Ltd.

Authorised Signatory

Range Forest Officer
 Padlikulath Forest Range

Regional Forest Officer
 Padlikulath Forest Range

HAMSHU SHEEP 200 MW
MUCK DUMPING SITE NO. -3



Area - 15 X 10 - 150m²
Depth - 8.0 m
Capacity of Muck Dumping - 150 X 8
- 1200 cum

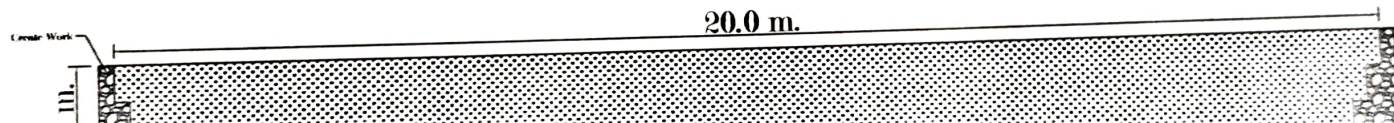
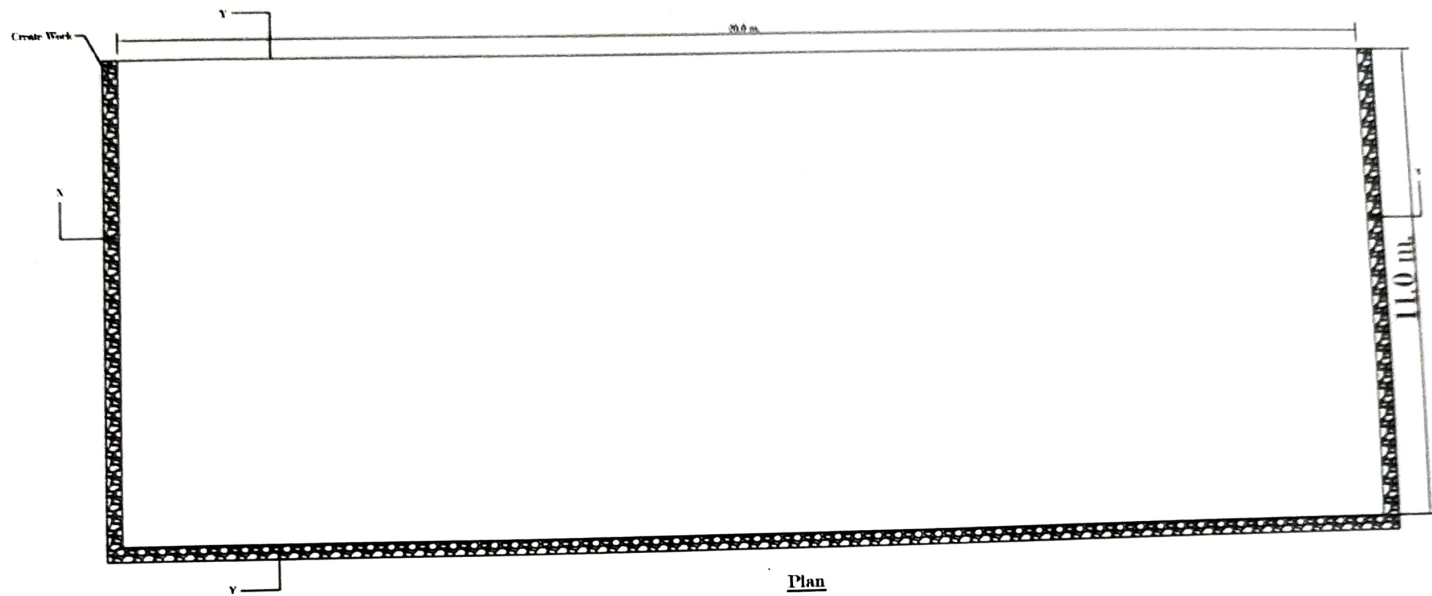
for Snowroam Engineering Pvt. Ltd.

Authorized Signatory

Range Forest Officer
Patikubhal Forest Range

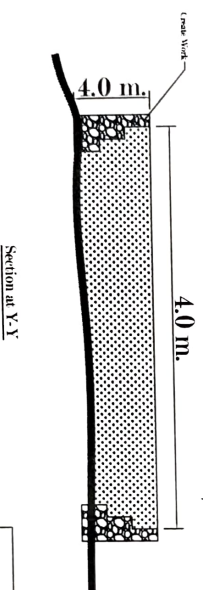
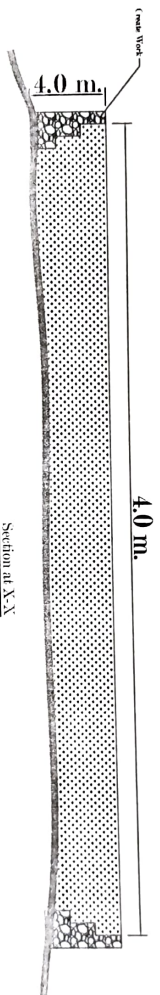
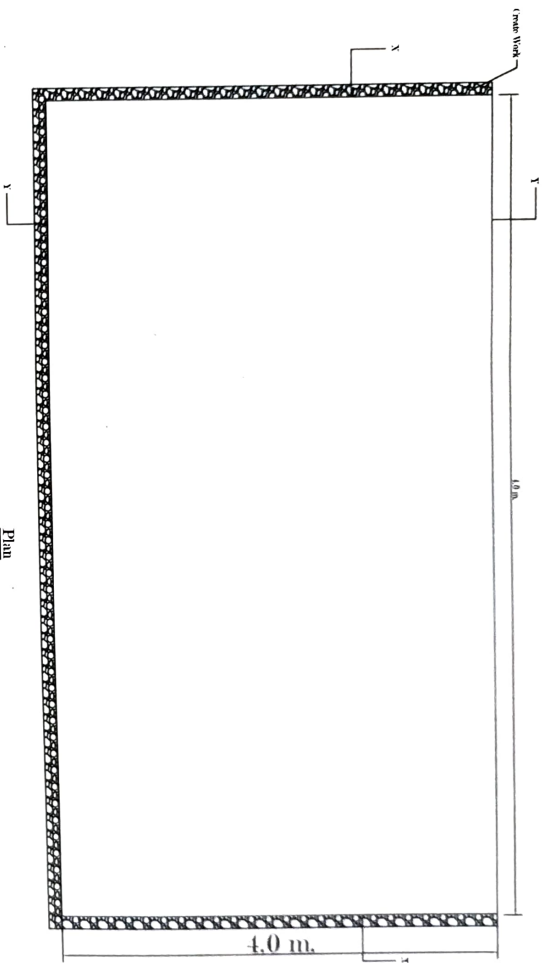
Divisional Forest Officer
Kullu Forest Division Kullu

HAMSITU SHEP 2.00 MW
MUCK DUMPING SITE NO. 4



HAMSHU-1 SHEP 2.00 MW

MUCK DUMPING SITE NO. -5



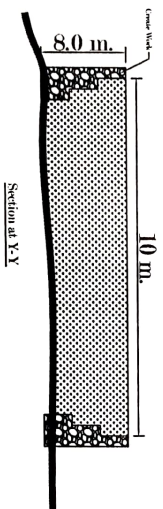
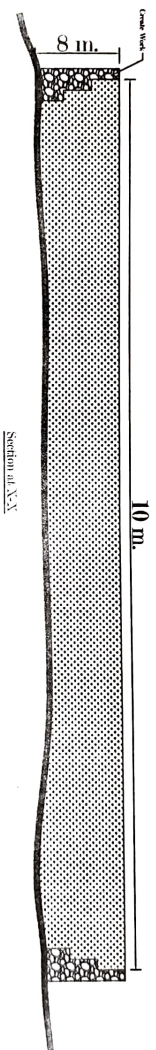
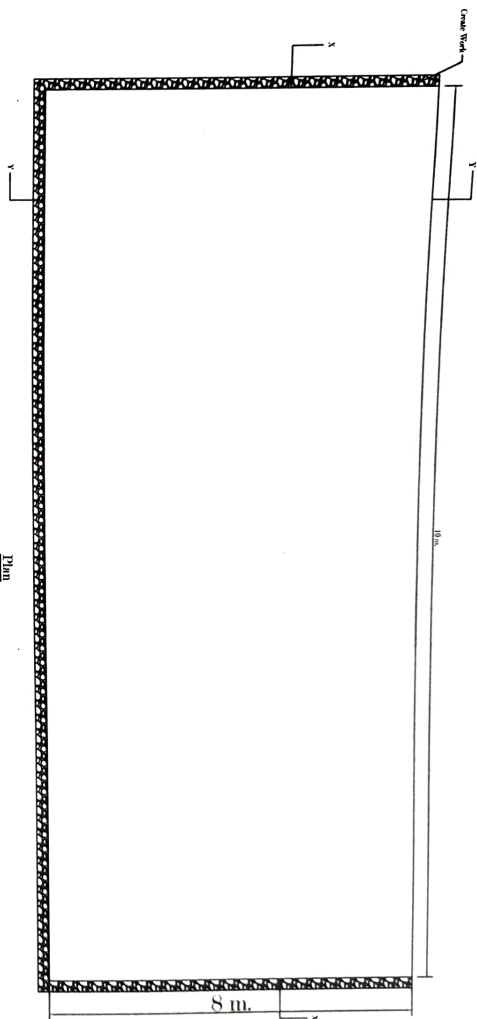
Area - $4 \times 4 = 16 \text{ m}^2$
 depth - 4
 Capacity of Muck Dumping - 16×4.0
 - 64 cum

for Snowdon
 Authorised Signatory

Range Forest Officer
 Partikubul Forest Range

Divisional Forest Officer
 Eastern Forest Division

HAMSHU SHEP 2.00 MW
MUCK DUMPING SITE NO.-6



Area - 10 X 8 - 80 m²
depth - 8.0 m
Capacity of Muck Dumping - 80 X 8
- 640 cum

for Snowfram Energy Pvt. Ltd.

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Authorised Signatory

Range Forest Officer
Patilkuhal Forest Range

[Signature]

Divisional Forest Officer
Kullu Forest Division Kullu

[Signature]

**Detail of Muck Dumping sites in respect of Hamshu-1 (2.00 MW) SHEP in Forest Range Patlikuhal,
Kullu Forest Division of Distt. Kullu (H.P.)**

Sr. No.	Name of Dumping Site	Location	Length in m	Width in m	Area in sqm	Area in Ha. Forest Land	Area in Ha. Private Land	Height in m	Capacity of Dumping in cum	Remarks
1	Muck Dumping Site -1	Near Power House	21.1	9	190	----	0.0190	7	1329	Private Land
2	Muck Dumping Site -2	Near Forebay Tank	20	5	100	0.0100	---	5	500	Forest Land
3	Muck Dumping Site -3	Near WCS Paradi	15	10	150	0.0150	---	8	1200	Forest Land
4	Muck Dumping Site -4	Near D-Tank Paradi	20	11	220	0.0220	---	8	1760	Forest Land
5	Muck Dumping Site -5	Near WCS Tundi	4	4	16	0.0016	---	4	64	Forest Land
6	Muck Dumping Site -6	Near D-Tank Tundi	10	8	80	0.0080	---	8	640	Forest Land
	Total				756	0.0566	0.0190		5493	

Date

Place - Kullu

for Snowfoam Energy Pvt. Ltd.
Authorized Signatory

Authorised Signatory

Divisional Forest Officer
Kullu Forest Division Kullu
Divisional Forest Officer

Kullu Forest Division, Kullu (HP)

Range Forest Officer
Patlikuhal Forest Range

RECLAMATION MUCK GENERATED PLAN FOR HAMSHU-1 SHEP (2.00 MW)

Sr. No.	Name of Component from Where Muck is to be Produced	Provided Size of Land In sqm	Actual Size of Component in sqm	Total Qty. of Muck to be Produced in cum	Factor of increase in volume after excavation	Total Qty. of Muck to be Dumped on the basis of increased Qty in cum	Qty of Muck to be utilised (in cum)	Total Qty of Muck Remaining after Utilisation	Remarks
1	Weir Site Paradi	10 X 1	6 X 1	15.00	45%	21.75	7.61	14.14	Out of total muck generated, about 35% shall be used in construction of crates, protection of diversion weir, Water Conduity System, Protection of desilting tank, construction of D Tank & Forebay, saddle supports and retaining walls to support penstock & rest of the muck including swell factor (45%) shall be dumped in muck dumping sites 2 to 6
2	WCS-1 Paradi	105 X 2	105 x 1	157.50	45%	228.38	79.93	148.44	
3	D-Tank Paradi	26 X 6	15.0 X 4.0	180.00	45%	261.00	91.35	169.65	
4	WCS-2 Paradi	32 X 2	32 X 1	32.00	45%	46.40	16.24	30.16	
5	Silt Flushing Paradi	15X 1	15.0 X 1.0	15.00	45%	21.75	7.61	14.14	
6	WCS-2 Tundi	44 X 1	44 X 1	44.00	45%	63.80	22.33	41.47	
7	D-Tank Tundi	15 X 5	10 X 4	160.00	45%	232.00	81.20	150.80	
8	Silt Flushing Tundi	10 X 1	10 X 1	10.00	45%	14.50	5.08	9.43	
9	WCS-1 Tundi	44 X 1	44 X 1	44.00	45%	63.80	22.33	41.47	
10	Weir Site Tundi	10 x 10	6 X 4	60.00	45%	87.00	30.45	56.55	
11	WCS-3 Paradi Nala	503 x 2	503 X 1	503.00	45%	729.35	255.27	474.08	40% of the muck generated from the Power House, Road and Transmission Line and Switchyard Shall Be used for levelling/filling of Power house and Switchyard area. Balance Muck including Swell Factor (45%) shall be dumped in site-1 in Private Land. 40% Muck Generated from Road cum UTC and Tail Race shall be used for leveling of Road and Tail Race. Balance Muck including Swell Factor (45%) shall be dumped in Muck Dumping site -I.
12	WCS-4 Tundi Nala	443 x 1	443 X 1	443.00	45%	642.35	224.82	417.53	
13	Forebay Tank	15 x 14	10 X 10	400.00	45%	580.00	203.00	377.00	
14	Penstock	513 x 2	513 X 1	513.00	45%	743.85	371.93	371.93	
	Power House	20 x 15	15 X 10	750.00	45%	1087.50	435.00	652.50	
	Switchyard	15 x 15	10 X 10	300.00	45%	435.00	174.00	261.00	
	Road Cum UTC and Tail Race	43 x 3	43 X 3	132.00	45%	191.40	76.56	114.84	
15	Road Cum UTC	300 X 3	300 X 3	900.00	45%	1305.00	522.00	783.00	
16	UTC	1107 x 0.60	1107 X 0.60	13.20	45%	19.14	7.66	11.48	
				4671.70		6773.97	2634.4	4139.60	
Total qty. of Muck is to be produced in cum = 4671.70							cum		
Total qty. of muck to be dumped on the basis of increased qty in cum = 6773.97							cum		
Qty of muck is to be utilised (in cum) = 2634.37							cum		
Total capacity of muck to be dumped = 4139.60							cum	TRUE	4139.6<5493.3

for Snow

 Range Forest Officer
 Patlikuh Forest Range


 Divisional Forest Officer
 Kullu Forest Division Kullu