



Attunli HEP - Purpose wise breakup of Land requirement							
Area Code	Location	Purpose	Surface Area	U/g Area	River Area (Ha)	Total Area (Ha)	Geo-coordinates of Centroid Latitude (°) Longitude (°)
A. Surface Works							
LA-1	Reservoir	a Area up to EL 1365m includes submergence area of 30.88 Ha upto FRL 1360m and other components which are part of this area are intake, U/s cofferdams, DT inlets, part of proposed temporary construction roads (DRRD3, DRRD4a, DRRD4c, DLRD3, DLRD3d), proposed temporary bridge (DTB3), part of proposed job facilities i.e Aggregate Processing Plant - APP1, Batching Plant - BMP2.	25.98		8.65	34.63	28° 40' 2.24" 96° 07' 50.92"
LA-2	Upstream (U/s) of Dam site	a Part area of Aggregate Processing plant (APP1) near RQ2 b Temporary construction road to approach RQ2 (DRRD4b, part of DRRD4c)	1.98 10.23			12.21	28° 40' 5.92" 96° 08' 14.94"
LA-3A	U/s of Dam site	a Main rock quarry (RQ2)	5.62			5.62	28° 40' 14.99" 96° 08' 8.22"
LA-3B	U/s of Dam site	a Main rock quarry (RQ2)	5.77			5.77	28° 40' 14.7" 96° 08' 1.01"
LA-4	U/s of Dam site	a Explosive magazine (EMI) b Part of temporary approach road DLRD3d from DTB3 to EMI	0.26 0.72			1.66	28° 40' 2.53" 96° 08' 1.78"
LA-5	U/s of Dam site	a Part area of Aggregate Processing plant (APP1) b Part of temporary roads DRRD3 & DRRD4a to approach RQ2 from dam site	0.68 1.68			2.36	28° 40' 5.88" 96° 07' 38.49"
LA-6A	Dam site	a Part of Rock quarry (RQ2) above DRRD4a includes Dam area, diversion tunnels, downstream cofferdam, portal of desilting basin (MAT), proposed permanent approach roads (DRRD1, DRRD2, DLRD1, DLRD2, DLRD3), proposed bridge DTB1, batching plant BMP1 and other temporary construction roads required to construct dam	0.68 15.73		1.49	17.22	28° 40' 2.42" 96° 07' 12.03"
LA-6B	Dam Site	a Owner's office OCL at dam site	0.36			0.36	28° 40' 6.38" 96° 07' 14.84"
LA-7A	Downstream D/s of Dam site near Apanli village	a Muck Dumping yard (AMD1) near dam site	5.34			5.34	28° 40' 13.55" 96° 06' 33.48"
LA-7B	Downstream D/s of Dam site near Apanli village	a Muck Dumping yard (AMD1) near dam site b Proposed Approach Roads DRRD5 & DRRD6	1.55 4.06			5.61	28° 40' 9.80" 96° 06' 45.91"
LA-8	Downstream (D/s) of Dam site near Apanli village	a Contractor Office & Colony (CC1) at dam site b Labour colony (LC1) at dam site c Temporary construction road DRRD7 to approach AMD1, CC1 & LC1	0.95 3.19 0.39			4.53	28° 40' 14.84" 96° 06' 41.70"

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A. Surface Works							
LA-9A	Downstream D/s of Dam site near Apanli village	a Workshop, parking & ware house for dam site (WS1)	1.68			1.68	28° 40' 8.76" 96° 06' 12.24"
LA-9B	D/s of Dam site near Apanli village	a Shoal quarry (PQ2) b Temporary construction Road (DRRD8) to approach shoal quarry (PQ2) from existing road	1.49 0.35			1.84	28° 40' 6.46" 96° 06' 12"
LA-10	Desilting Basin near Apanli village	a Proposed Road DLRD4 to approach SFT & other areas b Shoal quarry (PQ3) c Muck Dumping yard (AMD2) d Aggregate processing plant (APP2) e Rock quarry (RQ1) f Proposed Bridge (DTB2) on Tangon river to approach SFT and other areas	4.1 2.99 1.59 2.52 2.32 0.57		0.2	14.29	28° 40' 5.66" 96° 06' 25.87"
LA-11	Head Race Tunnel (HRT) near Adit A1	a Adit A-1 portal b Approach Road TRD1 & TRD2 to approach Adit A1 c Batching plant (BMP3) at Adit A1 d Contractor colony (CC2) & Labour colony (LC2)	0.33 0.74 1.14 1.79			4	28° 39' 43.81" 96° 05' 49.62"
LA-12	HRT near Adit A1	a Muck Dumping Yard (AMD3)	8.79			8.79	28° 39' 49.25" 96° 05' 46.24"
LA-13	HRT between Adit A1 & A2	a Contractor Office & Colony (CC3) b Aggregate processing plant (APP3)	0.71 2.31			3.02	28° 40' 7.93" 96° 05' 1.98"
LA-14	HRT near Adit A2	a Muck Dumping Yard (AMD4) b Proposed Bridge (DTB4) on Tangon river to approach AMD4 c Temporary Road (TRD4) to approach AMD4	20 0.53 6.9		0.25	27.68	28° 40' 11.57" 96° 05' 13.03"
LA-15A	HRT in between Adit A1 & A2 near Echali village	a Part of Muck Dumping Yard (AMD5)	2.42			2.42	28° 40' 19.2" 96° 04' 37.61"
LA-15B	HRT in between Adit A1 & A2 near Echali village	a Remaining part of Muck Dumping yards (AMD5)	4.09 1.73			5.82	28° 40' 13.12" 96° 04' 8.72"
LA-16	HRT near Adit A2	a Muck Dumping Yard (AMD6)	5.95			5.95	28° 39' 54.07" 96° 03' 31.75"
LA-17	HRT near Adit A2	a Adit A-2 portal & Adit A-2 site office b Batching plant (BMP4) for Adit A2 c Labour colony (LC3) d Approach road TRD3 to Adit A2	0.31 1.19 0.97 5.72			8.19	28° 39' 52.38" 96° 03' 27.42"
LA-18	HRT near Adit A2	a Muck Dumping Yard (AMD7)	1.45			1.45	28° 40' 3.83" 96° 03' 6"
LA-19	Owner's colony & Approach road PHRD1 to MAT	a Owner's colony & Approach road PHRD1 to MAT	6.69			6.69	28° 39' 54.4" 96° 02' 29.92"

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A. Surface Works							
LA-20	Power House	a MAT portal b PH Adit portal c Shoal quarry (PQ1) d Batching plant (BMP6) e Remaining part of PHRD1 and approach road PHRD2 to PH Adit	0.45 0.14 2.01 0.8 2.06			5.46	28° 39' 48.74" 96° 02' 4.07"
LA-21	Power House-Surge shaft	a Adit A-3 portal b Adit A-4 portal c Surge shaft top d Batching plant & Mixing Plant (BMP5) e Explosive Magazine (EM2) (PH Site) f Approach road PHRD4 & PHRD5 to surge shaft g PHRD6 to Adit A4	0.26 0.29 0.85 2.4 12.04 1.79			15.84	28° 39' 29.02" 96° 01' 59.14"
LA-22	Tail Race Outlet	a TRT portal b Pot head yard c Aggregate Processing plant (APP4) d Approach road PHRD3a & b to outlet and PTB1	0.59 1.67 1.79 2.26			6.31	28° 39' 29.59" 96° 01' 56.5"
LA-23A	D/s of power house near Attunli village	a Muck Dumping Yard (AMD8) Labour colony (LC4, E&M Storage and Penstock Fabrication Yard)	10.02			10.02	28° 39' 26.64" 96° 1' 34.48"
LA-23B	D/s of power house near Attunli village	a Contractor Colony (CC4) & Workshop & facility (WS2)	2.03			2.03	28° 39' 22.82" 96° 01' 38.91"
LA-24	Power house - Opposite bank	a Muck Dumping yard (AMD9) b Proposed Bridge (PTB1) on Tangon river to approach AMD9 c Approach road to approach AMD9	17.9 0.51 1.75		0.39	20.55	28° 39' 36.68" 96° 01' 41.97"
Sub-total (Surface Area)			59.82	0	0.39	60.21	

B. Underground Works (Notional area)							
LA-25	Desilting basin	a Intake tunnels, Desilting basin caverns & allied components	4.47			4.47	28° 39' 48.38" 96° 07' 1"
LA-26	HRT	a HRT & Adits	7.96			7.96	28° 39' 28.01" 96° 04' 30.34"
LA-27	Power House	a Power house cavern & allied components	1.76			1.76	28° 39' 46.69" 96° 02' 11.56"
Sub-total (Notional Area)			14.19			14.19	

Surface Area required (Ha) =	247.34
Notional Area required (Ha) =	14.19
Total Land Requirement (Ha) =	261.53



Client:	Attunli Hydro Electric Project Company Limited
Project:	ATTUNLI HYDRO ELECTRIC PROJECT (4X170 MW) Arunachal Pradesh, India.
Title:	PROJECT LAYOUT ON TOPOSHEEP
Drawing No.	169125
Serial.	AT-34
PA	0002
Rev.	1419