



LEGEND:

AREA FOR PERMANENT ACQUISITION

- ZONE-1 - SUBMERGENCE AREA BELOW FRL EL.455.00m
- ZONE-3A TO 3C - PROJECT ESTABLISHMENT
- ZONE-2 - PROJECT COMPONENT AREA
- ZONE-4A TO 4J - QUARRIES IN RESERVOIR/PERMANENT ACQUISITION AREA
- ZONE-5A TO 5C - QUARRIES OUTSIDE RESERVOIR AREA
- ZONE-6A TO 6B - DUMPING AREA
- ZONE-7 - EXPLOSIVE MAGAZINE COMPLEX
- ROAD AREA

AREA FOR TEMPORARY ACQUISITION

- ZONE-9A TO 9C - CONTRACTOR'S COLONY
- ZONE-8A & 8B - CONSTRUCTION FACILITY AREA
- EXISTING ROAD AREA
- PROPOSED ROAD AREA

GENERAL

- MAJOR CONTOUR
- MINOR CONTOUR
- NALLAH
- RIVER/STREAM
- HOUSE
- EXISTING ROAD
- PROPOSED TEMPORARY ROAD
- PROPOSED PERMANENT ROAD
- EXISTING BRIDGE
- PROPOSED PERMANENT BRIDGE
- PROJECT INFRASTRUCTURE SETUP

ABBREVIATIONS:

- BMP BATCHING & MIXING PLANT
- APP AGGREGATE PROCESSING PLANT
- W WORKSHOP
- S STORE
- RY PENSTOCK YARD
- R ROAD

NOTES :-

- 1 ALL DIMENSIONS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2 PROJECT ESTABLISHMENT (ZONE-3A TO 3C) INCLUDES AREA FOR RESIDENTIAL COLONY, PROJECT OFFICE, BANK, SCHOOL, HOSPITAL, POST OFFICE, POLICE STATION, FIRE BRIGADE, FUEL STATION, RECREATIONAL AREA ETC.
- 3 ZONE-3A IS LAND MEASURING 20 Ha AND IS A PART OF PROJECT ESTABLISHMENT AREA THAT HAS ALREADY BEEN ACQUIRED BY NHPC. THIS LAND IS TO BE LEGALLY TRANSFERRED TO KAMALA HYDROELECTRIC POWER COMPANY LIMITED (KHEPL).
- 4 PROJECT INFRASTRUCTURE SETUP COMPRISE BATCHING AND MIXING PLANTS (BMP), AGGREGATE PROCESSING PLANTS (APP), WORKSHOPS, STORES, PENSTOCK YARD ETC. THAT FORM A PART OF PERMANENT & TEMPORARY ACQUISITION AREAS AS SHOWN IN THE DRAWING.
- 5 THE AREAS OF QUARRIES INSIDE RESERVOIR AREA/ PERMANENT ACQUISITION AREA HAS BEEN CONSIDERED NIL.
- 6 THE AREA FOR ROADS (PERMANENT/ TEMPORARY) IN TABLE 1 & 2 INCLUDE ONLY THOSE ROADS THAT HAVE NOT BEEN INCLUDED IN ANY OF THE ACQUISITION AREAS.

DETAILS OF TEMPORARY ROADS

S.No.	Designation	Description of Road	Length (km)
1	R-2	To top of Rock Quarry Zone 5A	3.8
2	R-5A	From R-5 to Dumping area Zone 6A	1.0
3	R-6	Realigned road on right bank from Road R-3 to existing road towards upstream of dam	2.4
4	R-7	Widened existing left bank road from left bank of dam to Zone 5C	12.0
5	R-10	Link from existing road to realigned road on left bank (upstream of dam) via APP-1 & BMP-1	2.1
6	R-11	From R-10 to Intake	0.6
7	R-12	From existing road on left bank (upstream of dam) to DT inlet	1.0
8	R-13	To dam concreting crane track from realigned road (R-9) on left bank	0.5
9	R-15	From existing road R-7 to Road R-13 via adit to top of Pressure shaft	3.2
10	R-16	From existing road R-7 on left bank to proposed bridge no. 3 (downstream of dam) to access DT outlet & TRT outlet	1.5
11	R-17	From existing right bank road to Zone 4D via BMP-5 upstream of dam	2.3
12	R-18	From R-17 to access dam bottom	1.0

DETAILS OF PERMANENT ROADS

S.No.	Designation	Description of Road	Length (km)
1	R-1	New road on right bank of Pein river from Pameri camp	10.0
2	R-3	Widening of existing road on right bank of Dam top to Zone 6A	4.0
3	R-4	To dam bottom (upto dam toe powerhouse from widened right bank road R-3)	2.7
4	R-5	From R-4 to proposed bridge no. 2 over Kamala river near Tamen	0.7
5	R-8	To Explosive magazine	1.0
6	R-9	Left bank realigned road from Zone-6B to Zone 4G	18.0
7	R-14	To dam top from realigned road R-9 on left bank	1.0
8	R-19	Right bank realigned road from R-6 to dam us	6.0

DETAILS OF PERMANENT LAND REQUIREMENT

S. No.	Zone	Project Component	Location	Surface Area (Ha)	Under River Area (Ha)	River Area (Ha)	Total Area (Ha)	Position of Co-ordinates	Gravel Coordinates
1	1	Reservoir Submergence Area Below FRL EL. 455.00m	Up stream of Dam Area	2201.00	0	484	2775.00	Centroid	93°59'21.74"E 27°40'20.33"N
NOTE: The present land requirement is from FRL only and the area between FRL & MWL amounting to 300 Ha is not included in it. The reserve behind not inclusion of the 320 ha between MWL & FRL is that the Project shall be operated from FRL level only and only in case of Flood Moderation, i.e., 100 year Flood, this area between MWL & FRL shall be filled with water. In such situation of 300 Ha is not included.									
Project Component Area									
2	2	Batching & Mixing Plant (BMP)	Left Bank of Kamala River	1.70	0	0	1.70	Centroid	93°59'21.74"E 27°40'20.33"N
		Dam Abutments - Left Bank	Left Bank of Kamala River	3.03	0	0	3.03	Centroid	93°59'21.74"E 27°40'20.33"N
		Dam Abutments - Right Bank	Right Bank of Kamala River	3.12	0	0	3.12	Centroid	93°59'21.74"E 27°40'20.33"N
		Clay Borrow Area (Zone 4J)	Left Bank of Kamala River	12.60	0	0	12.60	Centroid	93°59'21.74"E 27°40'20.33"N
		Roads - Right Bank (Road R-19)	Right Bank of Kamala River	34.16	0	0	34.16	Entry (R19)	93°59'21.74"E 27°40'20.33"N
		Roads - Left Bank (R-14, R-15, R-16)	Left Bank of Kamala River	15.12	0	0	15.12	Entry (R14)	93°59'21.74"E 27°40'20.33"N
		Roads - Left Bank (R-9)	Left Bank of Kamala River	5.15	0	0	5.15	Entry (R9)	93°59'21.74"E 27°40'20.33"N
		River Bed Area		0.00	0	12.9	12.90	Entry	93°59'21.74"E 27°40'20.33"N
		Underground Project Components (Including Diversion Tunnel, Headrace Tunnel, Pressure Tunnel, Powerhouse Complex, Tailrace Tunnel)	Left Bank of Kamala River	0.00	52.22	0	52.22	Centroid	93°59'21.74"E 27°40'20.33"N
		Down stream of Dam Area on Left Bank	Left Bank of Kamala River	28.0	0	0	28.0	Centroid	93°59'21.74"E 27°40'20.33"N
3	3B	Project Establishment (Zone 3B)	Up stream of Dam Area on Right Bank	12.0	0	0	12.0	Centroid	93°59'21.74"E 27°40'20.33"N
4	4	Quarry Area inside Reservoir Area		0	0	0	0		
5	5A	Quarry Area outside Reservoir Area	Right Bank of Kamala River	71.00	0	0	71.00	Centroid	93°59'21.74"E 27°40'20.33"N
6	6A	Quarry Area outside Reservoir Area	Left Bank of Kamala River	5.00	0	0	5.00	Centroid	93°59'21.74"E 27°40'20.33"N
7	7	Explosive Magazine Complex	Left Bank of Kamala River	13.00	0	0	13.00	Centroid	93°59'21.74"E 27°40'20.33"N

DETAILS OF LAND REQUIRED ON LEASE BASIS

S.No.	Description	Area in plan (Ha)
1	Land required under lease	118.0
2	Land required for permanent acquisition	3163.0
Total		3279.0

TOTAL LAND REQUIREMENT

S.No.	Description	Area in plan (Ha)
1	Land required under lease	118.0
2	Land required for permanent acquisition	3163.0
Total		3279.0