

Sponsored Thesis Project Competition on "Re-imagining Urban Rivers"

Integrating traditional water resource management system – **Kuhls**, for sustainable and coherent master planning in proposed lithium mining residential township: The case of **Chenab valley, Reasi district, Jammu**

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Site location & Context

Kuhls are handcrafted natural drainage channels, conveyed water from glaciers by Himalayan belt civilizations and leverage for agriculture & routinely necessities.

Introduction & Background

Analysis & Key Issues

Proposals

Legend

- 1.1 Entry Gate No. 1 (North)
- 1.2 Entry Gate No. 2 (East)
- 1.3 Entry Gate No. 3 (South)
- S.1 adjoining CISF Security Check
- S.2 Depots
- S.3
- 2 Campus CISF Office building
- 3 Electricity distribution center
- 4 Kuhls - Plumbing check station office
- 5 NaLiCo Bus stand
- 6 Parvat Manthan Community Center
- 7 Market place
- 8 Green belt pockets
- 9 Sindh blocks: Type A cluster - I (1-52)
- 10 Beas blocks: Type A cluster - II (A: 1-12; B: 1-12; C: 1-12)
- 11 Jhelum blocks: Type A cluster - III (A: 1-12; B: 1-12; C: 1-12; D: 1-16; E: 1-16; F: 1-12)
- 12 Dal Lake Apartments: Type B cluster - I (1-32, 33-64)
- 13 Zanskar Quarters: Type C cluster - I (1-30; 31-62)
- 14 Bank
- 15 Post office
- 16 Kendriya Vidyalaya - Primary & Secondary school
- 18 Dedicated Agricultural Farm-lands
- 19 Livestock rearing
- 20 Waster water Treatment Plant

Hierarchy of Roads

- Central Avenue Road**
4 lane road
+2m Pedestrian pavers (To) 3m+3m
0.8m(Divider)
(Fro) 3m+3m
+2m Pedestrian pavers
- Internal Roads**
2 Double lane road
+2m Pedestrian pavers (To) 3m
(Fro) 3m
+2m Pedestrian pavers

Housing Typologies Legend

- Gstorey (+LVL3500) Type A building
- G+1 storey (+LVL 6200) Type B Apartments
- G level (+LVL 3500) Type C building

Way Forwards

the URMP adherence

Environmental & Ecological (Planet)	Economical & Revenual (Profit)	Social & Communal (People)
<ul style="list-style-type: none"> To rejuvenate and ideate methods, advisory guidelines and methodology for kuhls conscious infrastructure construction. 1. GIS mapping 2. Policy 3. No Development Zone 4. Growth - time 5. Increased Flow of Treated Wastewater 6. DEWATS treatment 7. Garden & meadows 	<ul style="list-style-type: none"> To revitalize kuhls execution framework to yield opportunities for economic enrichment. 8. Agriculture 	<ul style="list-style-type: none"> To revive the antecedent community attachment and nuances with the kuhls management and maintenance. 9. Knowledge transfer 10. Communal management

the SDGs build up