

Environment and Social Screening Report

January 2018

Construction of 2 Roomed Single Storeyed Building at Govt. Middle School Batwara Srinagar

Prepared by PW (R&B) Department, Government of Jammu & Kashmir.

EXECUTIVE SUMMARY

The Floods of devastating September 2014 shows negative impact on economic aspects of the state and massive infrastructure damages in which Kashmir Valley. In response, a mission of the World Bank visited the state during February 1-6, 2015 in order to produce a rapid multi-sectoral assessment report of the damages and needs. The RDNA estimates the total damages and loss caused by floods at about INR 211,975 million (US\$ 3,550.45), most of it to housing, livelihoods, and roads and bridges, which combined represented more than 70% of the damages in terms of value. Public service infrastructure and equipment of hospitals and education centres were also severely damaged and are still not fully operational.

One of the School infrastructures, “Govt. Middle School Batwara Srinagar” was also severely affected with floods, due to the low lying area the whole School was inundated upto 10 feet from the plinth height. This results into great inconvenience to the staff, students, and virtually it was not possible for the school staff as well as students to attend the school in such deluge. Due to flood 2014 the school building got damaged and was declared unsafe. In view of this it was decided to construct new structure for the school.

To mitigate any potential impacts, assessment procedures and mitigation measures have been put into place through the Environment and Social Management Framework (ESMF) for Jhelum and Tawi food recovery Project, so that any likely negative impacts are minimized. Taking ESMF into consideration, Environment and Social screening study was conducted to identify sub-projects with potentially significant environmental and social issues at an early stage for any further detailed Environmental and Social studies. The Environmental and Social screening is done through evaluation of all the available information on environmental and social aspects as provided in the ESDS, assessment of level of expected environmental and social impacts based on field visits, to classify the sub-projects in different categories as per ESMF. As per the findings of the Environment and Social screening study for this sub-project, there are no significant adverse environmental as well as social impacts in sub-project area. The proposed sub-

project does not involve any land acquisition as the sub-project involves construction of new school block facility on available Govt. land (Custodian) (Govt Girls Middle School Batwara) and on existing land area. No scheduled tree cutting is involved. Environmental Management Plan (EMP) will be prepared which will provide specific actions deemed necessary to assist in mitigating the environmental impacts, guide the environmentally-sound execution of the subproject, and ensure efficient lines of communication between the implementing agency, project management unit, and contractors. The EMPs will form part of the bid document and to be reviewed during implementation. The EMP will be included in the contractual clauses and will be made binding on the contracting firm. As the project do not have any significant impact, hence no further special study or detailed environmental impact assessment (EIA)/ Social impact assessment need to be undertaken.

To know the suggestions of the stakeholders, a consultation was conducted on 28th November 2017 with the teachers of the school. The students of the school could not be consulted as the school was closed for winter vacation. The sub-project is located in military zone and there is no civil population nearby. Thus, no consultation was conducted with general public. It has been decided that consultation with students and staff members of school will be held again after winter vacations. During discussion/consultation with teachers of the school, they were informed about the project operation and also the safeguard policies of the World Bank. The purpose of Environmental and Social Screening study was also explained to them. In general, they were of the opinion that the design criteria for the school should be finalized by the World Bank. They also informed that the proposed construction of new block facility will not have adverse effects on local population in their daily activities due to construction activities as the construction is confined within the boundary of the school premises. Although, temporary inconvenience to local public will be there mainly attributed to material transportation during the construction phase. It was ensured by Public and Works PW (R&B) department as PIU/ implementing agency that the requisite environmental mitigation measures shall be incorporated in EMP and public consultation shall be a regular process during all stages of the sub-

project to solve any issues arising out of the proposed works. The GRM will be constituted before construction stage.

1. Introduction and Project Background

1.1 Project background

In September 2014, J&K experienced torrential monsoon rains in the region causing major flooding and landslides. The continuous spell of rains from September 2-6, 2014, caused Jhelum and Chenab Rivers as well as many other streams/tributaries to flow above the danger mark. The Jhelum River also breached its banks flooding many low-lying areas in Kashmir, including the capital. In many districts, the rainfall exceeded the normal by over 600%.

Due to the unprecedented heavy rainfall the catchment areas particularly the low lying areas were flooded for more than two weeks. Some areas in Kashmir and in urban Srinagar stayed flooded for 28 days. Water levels were as high as 27 feet in many parts of Srinagar.

Based on the **Rapid Damage Needs Assessment (RDNA)** results, restoration works underway, and discussions with the GoJ&K, the project will focus on restoring critical infrastructure using international best practice on resilient infrastructure. Given the state's vulnerability to both floods and earthquakes, the infrastructure will be designed with upgraded resilient features, and will include contingency planning for future disaster events. Therefore, the project aims at both restoring essential services disrupted by the floods and improving the design standard and practices in the state to increase resilience.

1.2 Project Development Objective

The Project Development Objective (PDO) is to support the recovery and increase disaster resilience in targeted areas of the state, and increase the capacity of the State entities to respond promptly and effectively to an eligible crisis or emergency.

The project is comprised of the following seven components:

- I. Reconstruction and strengthening of critical infrastructure (US\$60 million)
- II. Reconstruction of roads and bridges (US\$80 million)

- III. Restoration of urban flood management infrastructure (US\$50 million)
- IV. Strengthening and restoration of livelihoods (US\$15 million)
- V. Strengthening disaster risk management capacity (US\$25 million)
- VI. Contingent Emergency Response (US\$0 million)
- VII. Implementation Support (US\$20 million)

1.3 Subproject Background

The objective of this component of the “Jhelum and Tawi Flood Recovery Project” is to support the reconstruction/restoration of damaged public buildings, such as schools, higher education buildings, hospitals, fire stations, and selected block and district offices, and other important public buildings. It will include the restoration of partially damaged structures and the reconstruction of fully damaged structures, including equipment and furniture. The component will finance infrastructure and equipment damaged by the disaster, and improvements to current structures to increase resilience. Assessments will be carried out to determine the extent of structural integrity and retrofitting/reconstruction needs. For schools, the reconstruction will be focused on replacement of damaged school buildings. The component will also finance the repair and reconstruction of damaged hospitals, higher education, fire station, and other public buildings, including the procurement of equipment/furniture, etc.

Under this component the subproject “Construction of New School Building at Govt Girls Middle School Batwara Srinagar” has been proposed.

1.4 Sub-project description

Roads and Buildings Department has undertaken Construction of Govt. Girls Middle School at Batwara Srinagar, financed by World Bank under Jhelum Tawi Flood Recovery Project. Batwara is located at 34°03'24.5"N 74°51'01.3"E approximately. It lies parallel to the Jhelum River and National Highway road near Sonwar Bazaar (market). It is about

3–5 km from Lal Chowk, the commercial hub of the State of Jammu and Kashmir. The area being low lying often gets inundated. During devastating floods of September 2014 whole area including Govt. Girls Middle School Batwara got inundated. The HFL recorded near the school was more than 10 feet from ground level. Govt Girls Middle School Batwara has roll of around 50 odd students and 17 teaching and non-teaching faculty with catchment areas like Gandabal, Ram Munshi Bagh, Sonwar Bagh, Padshai Bagh etc. Unfortunately the school infrastructure got damaged during the devastating deluge of September 2014 as the school structures got fully damaged with the result the school authorities are facing great inconvenience in conducting various education related activities / facilities. For restoring / reconstructing / augmenting the school infrastructure the school authority has requested for the requirements and accommodations needed by the Institution and has stated that the old damaged structure where the new proposed building is to be constructed has been declared unsafe and needs to be knocked down.

The decision/proposal was well considered and in line with the recommendations of education department and concerned authority of post September 2014 deluge, and according to which the most optimal choice is construction of new block facility of school with modern standards and design criteria including the separate toilet facilities.

The proposed building shall have 2 rooms set. The building shall rest on RCC Raft / Pile foundation with plinth beams as per design. RCC Frame structure has been proposed with non load bearing panels of bricks masonry in cement for the building. RCC slab shall be laid over and shall be provided with steel roof truss with colour coated CGI sheets in accordance with structural design. Wooden frames of designed section shall be provided for doors, Windows and glazed/panelled shutters wood or equivalent shall be provided in accordance with the approved architectural design. The wood work shall be painted / polished with paint of approved quality. The floor shall be of Kota, Terrazzo, Vitrified Tiles, and Granite as per the norms freezed in CPWD cost index. All other areas including ceiling shall be cement plastered and finished with POP and emulsion paint of approved shade. The toilets shall be provided with concealed sanitary and plumbing pipes/fittings with the requisite fixtures, chinaware etc. in accordance with the approved

specifications. The building shall be constructed on smart class pattern with adequate audio, visual and internet facilities.

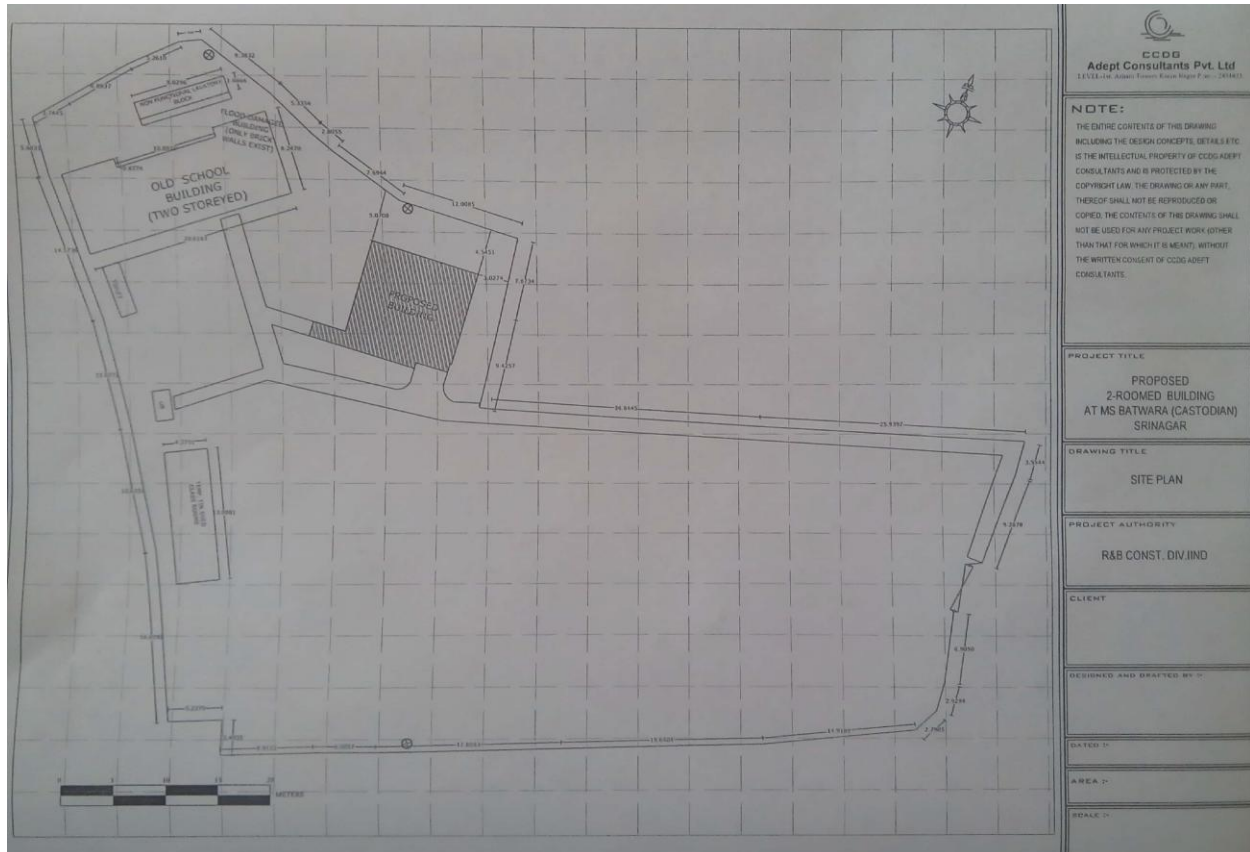


Fig-1: Layout Plan of the Proposed Construction of Govt Middle School Batwara Srinagar

1.5 Objective of the Environmental and Social Screening

Subprojects under “Jhelum and Tawi Flood Recovery Project” commonly known as JTFRP have a prior requirement of screening which is based on three categories; viz., nature of the project, size of the project and location of the project that is sensitive area criteria. The objective of environment and Social screening is to identify sub-projects with potentially significant environmental and social issues at an early stage for any further detailed Environmental and Social studies. The environmental and Social

screening is done through evaluation of all the available information on environmental and social aspects as provided in the ESDS, assessment of level of expected environmental and social impacts based on field visits, to classify the sub-projects in different categories as per ESMF

1.6 Methodology of Environment and Social Screening Study

The environment and social screening for the subproject has been carried out at the site by making use of a Environment and Social Screening Checklist (**Annexure-I**) that contains the relevant questions for identification of anticipated environment and social impacts due to execution of the subproject.

2. Environment and Social Impacts

2.1 Environment Impacts

The project is not anticipated to have adverse significant or irreversible negative environmental impacts neither at the construction, nor at operation phase. Impacts of the construction phase will be typical for all medium scale construction activities, short-term/ temporary and limited to the project site. Since, the proposed site is the Govt. land (Custodian) under the school. No adverse Impacts during the operation phase and will be typical for operating educational institution. There are no sensitive areas like specially protected areas or threatened or endangered endemic species in the project area as defined in the ESDS.

The potential negative environmental and social impacts of the proposed Construction of a new Block facility at School premises at Batwara in Srinagar City may have modest nature and are presented below;

- 1 Generation of waste material from the demolition activity of existing building at the proposed site;
- 2 Generation of construction wastes during construction activity;

- 3 Degradation of landscapes and access road.. Implementation of earthworks associated with construction works of new school and allied infrastructure may cause degradation of existing landscape. These impacts will be mostly associated with installation of on-site concrete-mixing plant, construction material storage and waste temporary accumulation site;
- 4 Impacts from temporary access roads and work sites. As well as construction materials storage and waste temporary accumulation site, camp, machinery site, storage facilities can enhance and degrade the existing landscape;
- 5 Pollution of water and soil by construction run-offs. Improper storage of construction materials, construction waste and excavated materials, as well as spillage of fuel, oil and other substances during construction can cause pollution of soil and/or water. It should be mentioned that there are no water bodies located nearby the proposed construction site;
- 6 Noise and vibration disturbances during construction are related to the execution of civil works and transportation of construction materials/waste. These impacts will occur during the construction works and will include noise and vibration caused by operation of heavy machinery; Temporary air pollution occur during construction works and includes release of dust from excavation/loading works and heavy machinery operation, emission of harmful substances from combustion of diesel used by transportation means and machinery during the construction works, emissions from welding, concrete-mixing, asphalt-placing, activities, as well as dust caused by improper storage of friable construction materials and non-timely disposal of friable construction waste.
- 7 Safety Issues for the main operational school and contractor's workforce & staff, supervisory teams etc., during construction phase of the project.
- 8 Statutory requirements during execution of the project.

- 9 Disturbance to nearby located residents is associated with temporary air pollution, noise and vibration caused during implementation of civil works and operation of heavy machinery.

2.2 Social Impacts:

2.2.1 Impact of land

The proposed sub-project does not involve any land acquisition as the sub-project involves construction of new school block facility on available Govt. land (Custodian) (Govt Girls Middle School Batwara) and on existing land area.

2.2.2 Impact on Livelihood

No Such impact is anticipated

Therefore based on the findings during survey, there are no significant adverse environmental as well as social impacts due to the sub-project, hence no further specific study or detailed Environmental Impact Assessment (EIA)/ Social Impact Assessment (SIA) needs to be undertaken. No scheduled tree cutting is involved. Environmental Management Plan (EMP) will provide specific actions deemed necessary to assist in mitigating the environmental impacts, guide the environmentally-sound execution of the subproject, and ensure efficient lines of communication between the implementing agency, project management unit, and contractors, this will also include various labour laws related to this sub0project.. The EMPs will form part of the bid document and to be reviewed during implementation. The EMP will be included in the contractual clauses and will be made binding on the contracting firm. The EMP will also include all laws related to labours i.e. labour laws.

3. Public Consultation

A consultation with the teachers was conducted on 28th November 2017.. The students of the school could not be consulted as the school was closed for winter vacation. The sub-project is located in military zone and there is no civil population nearby. Thus, no consultation was conducted with general public. It has been decided that consultation with students and staff members of school will be held again after winter vacations. Few of the topics discussed during the consultation are as follows:

- The proposed project and its source of assistance, its implementation/execution etc.
- Proposed construction of new school block and the perceived Information on the benefits of the subproject and environmental enhancement Concept of EMP and present study of Environment and Social Screening requirements and benefits.
- Any anticipated health hazards dur to construction activities and their mitigation measures.
- Direct and indirect impacts of construction work on environment.
- Protection and conservation aspects of environmental attributes
- Mechanism and operation of grievance redressel system in case of any public complaints during project execution. The GRM will be constituted before the commencement of construction work.

Outcome and suggestions received during Consultation

During discussion/ consultation with teachers of the school, they were informed about the project operation and also the safeguard policy of the World Bank. The purpose of Environmental and Social Screening study was also explained to them. Following suggestions were received from them for the sub-project:

- They were in the opinion that the design criteria for the school should be finalized by the World Bank as they want construction of separate toilet

blocks and drinking water facility should be included in new school design/construction.

- .The proposed construction of new block facility will not have adverse effects on local population in their daily activities due to construction activities as the construction is confined within the boundary of the school premises. Although, temporary inconvenience to local public will be there mainly attributed to material transportation during the construction phase.

PW (R&B) department as PIU/ implementing agency ensured that the requisite environmental mitigation measures shall be incorporated in EMP and public consultation shall be a regular process during all stages of the sub-project to solve any issues arising out of the proposed works.

Environment and Social Screening

Part A: General Information

1. Name of the sub-project	Construction of New Block at Govt. Middle School Batwara Srinagar	
2. Type of proposed activity (tick the applicable option and provide details)		
▪ Road	<input type="checkbox"/>	-
▪ Bridge	<input type="checkbox"/>	-
▪ Fire Station	<input type="checkbox"/>	-
▪ Hospital/Health Facility	<input type="checkbox"/>	-
▪ Educational Institute	<input type="checkbox"/>	Govt. Middle School Batwara Srinagar
▪ Building for Livelihoods	<input type="checkbox"/>	-
▪ Flood Infrastructure Related	<input type="checkbox"/>	-
▪ Other Public Building	<input type="checkbox"/>	-.
▪ Any Other (Please Specify)	<input type="checkbox"/>	-
3. Location of the proposed sub-project		
▪ Name of the Region	Jammu & Kashmir	
▪ Name of the District	Srinagar	
▪ Name of the Block	Sonwar	
▪ Name of the Settlement	Batwara	

▪ Latitude	34.03245 E
▪ Longitude	74.51013 N
4a. Proposed Nature of Work (tick the applicable options)	
▪ Minor Repairs	-
▪ Major Repairs/Rehabilitation	-
▪ Upgrading/Major Improvement	-
▪ Expansion of the facility	-
▪ New Construction	√
▪ Any Other	-
4b. Size of the sub-project (approx. area in sq. mt/hac or length in mt/km, as relevant)	-
5. Land Requirement (in hac./sq.mt.)	
▪ Total Requirement	-
▪ Private Land	-
▪ Govt. Land	-(Existing School Premises)
▪ Forest Land	-
6. Implementing Agency Details (sub-project level)	
▪ Name of the Department/Agency	PW (R&B) Kashmir
▪ Name of the contact person	Er. Javeid Ahmad Bukhari
▪ Designation	Executive Engineer
▪ Contact Number	+91-9419006437
▪ E-mail Id	javeidbukhari@yahoo.com

7. Screening Exercise Details	
▪ Date on which it was carried out	28/11/2017
▪ Name of the Person	Mr. Yadullah Shah
▪ Contact Number	+91-9622672672
▪ E-mail Id	yaadshah@gmail.com

Part B (1): Environment Screening

Question	Yes	No	Details
1. Is the sub-project located in whole or part within 1 km of the following environmentally sensitive areas?			
a. Biosphere Reserve		No	
b. National Park		No	
c. Wildlife/Bird Sanctuary		No	
d. Wildlife/Bird Reserve		No	
e. Important Bird Areas (IBAs)		No	
f. Habitat of migratory birds (outside protected areas)		No	.
g. Breeding/Foraging/Migratory route of Wild Animals (outside protected areas)		No	
h. Area with threatened/rare/endangered fauna (outside protected areas)		No	

i. Area with threatened/rare/endangered flora (outside protected areas)		No	
j. Reserved/Protected Forest		No	
k. Other category of Forest		No	
l. Wetland		No	
m. Natural Lakes		No	
n. Rivers/Streams	Yes		Jhelum river is 300 mts from the sub-project site
Question	Yes	No	Details
o. Swamps/Mudflats		No	
p. Zoological Park		No	
q. Botanical Garden		No	
4. Is the sub-project located in whole or part within 500 mts. of any of the following sensitive features?			
a. World Heritage Sites		No	
b. Archaeological monuments/sites (under ASI's central/state list)		No	

<p>c. Historic Places/Monuments/ Buildings/Other Assets (not listed under ASI list but considered locally important or carry a sentimental value)</p>		<p>No</p>	
<p>d. Religious Places (regionally or locally important)</p>		<p>No</p>	
<p>e. Reservoirs/Dams</p>		<p>No</p>	
<p>f. Canals</p>		<p>No</p>	
<p>g. Public Water Supply Areas from Rivers/Surface Water Bodies/Ground Water Sources</p>		<p>No</p>	
<p>4. What is the High Flood Level in the sub-project area?</p>	<p>13 feet</p>		
<p>5. Is any scheduled/protected tree like Chinar, Mulberry or Deodar likely to be affected/ cut due to the project?</p>		<p>No</p>	
<p>6. Is the sub-project located in a landslide/heavy erosion prone area or affected by such a problem?</p>		<p>No</p>	

7. Is sub-project located in an area that faces water paucity or water quality issues?		No	
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Part B (2) : Result/Outcome of Environmental Screening Exercise		
1.	Environment Impact Assessment Required	No
2.	Environment Clearance Required	No
3.	Forest land Clearance/Diversion Required	No
4.	Tree Cutting Permission Required	No
5.	ASI (Centre/State) Permission Required	No
6.	Permission from ULB/Local Body/Department Required	<p style="text-align: center;">Yes</p> <p>Permission for Building Construction will be required from Srinagar Municipal Corporation (SMC).</p>
7.	Any other clearance/permission required	<p style="text-align: center;">Yes</p> <ul style="list-style-type: none"> ▪ Various Statutory clearances and NOC's / PUC's for establishment or operation of batching plants , stone crushers, generators, vehicles etc shall be required to be obtained by the Contractor from the concerned authorities. Construction material will be procured only from permitted sites and licensed /authorized quarries/ borrow sites.

Part C (1): Social Screening

1. Does the sub-project activity require acquisition of land?			
Yes		No	√
Give the following details:	Private Land (sq mts/hac.)		No
	Govt. Land (sq mts/hac.)		Custodian land under J&K Govt.
	Forest Land (sq mts/hac.)		No
2. Does the proposed sub-project activity result in demolition/removal of existing structures?			
Yes	√	No	
If so, give the following details:			
▪ Number of public structures/buildings		01 Existing School Structure to be demolished which got damaged in 2014 floods.	
▪ Number of common property resources (such as religious/cultural/ drinking water/wells/etc.)		-	
▪ Number of private structures (located on private or public land)		-	
3. Does the proposed project activity result in loss of crops/trees?			
Yes		No	√

4. Does the proposed Project activity result in loss of direct livelihood/ employment?			
Yes		No	√
5. Does the proposed activity result in loss of community forest/pastures on which nearby residents/local population are dependent?			
Yes		No	√
If yes, give the details of the extent of area to be lost (in acres/hac).			
6. Does the proposed Project activity affect scheduled tribe/caste communities?			
Yes		No	√

Part C (2): Result/Outcome of Social Screening Exercise

S.No.	Result/Outcome	Outcome
1.	Answer to all the questions is 'No' and only forest land is being acquired	No
2.	Answer to any question is 'Yes' and the sub-project does not affect more than 200 people (i.e. either complete or partial loss of assets and/or livelihood)	No
3.	Answer to any question is 'Yes' and the sub-project affects more than 200 people (i.e. either complete or partial loss of assets and/or livelihood)	No

Outcome

The proposed sub-project site will not have any significant environmental & social impact because the project will not involve any forest land, destruction of ecological resources, displacement of people or any major environmental threat/risk etc. However, for the construction new school structure existing 01 structures of school need to be demolished, which has been declared unsafe due to 2014 floods.

There may be some short term inconvenience to Staff, students and local citizens due to construction but it will be for very short period if compare with its long term benefits to the public.

No EIA and SIA required for the subproject site. However, the subproject would require preparation of EMP.

Statutory Clearances/ No Objection Certificate:

Only Statutory clearances and NOC's / PUC's for establishment/operation of batching plant, stone crushers, generators, vehicles etc shall be required to be obtained by the Contractor.

Appendix-1: Photographs of Proposed Site for construction of New School Block



Existing School Building to be Demolished

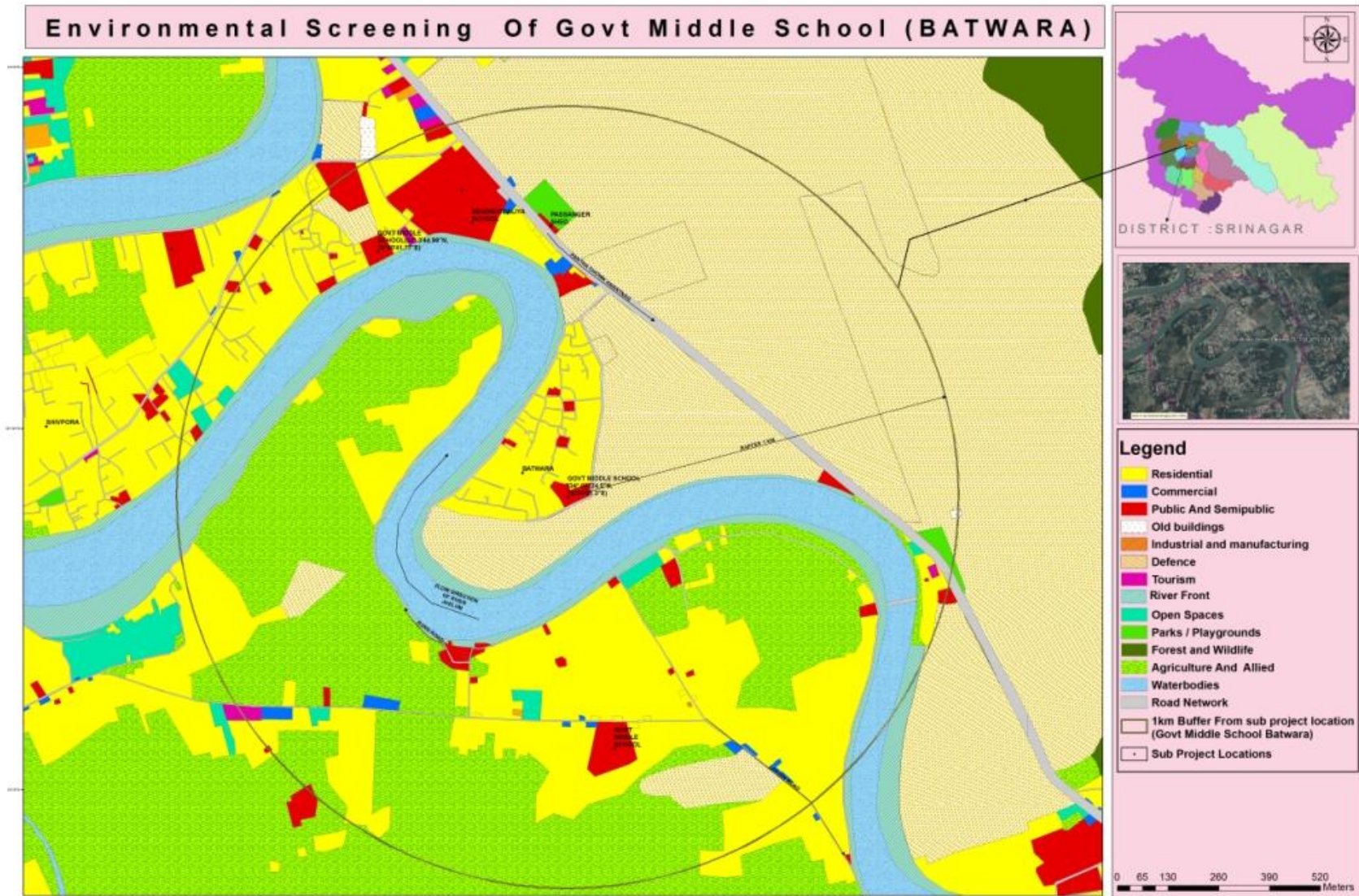
Appendix-2: Consultation Photographs



Consultation with School Staff¹

¹ The school is off on winter vacations because of that no consultation with students and only few staff members were available at the time of proposed site visit. The sub-project area is generally located in military area so no civil population nearby.

Appendix-3: Satellite Map of the Proposed Subproject site of New School Block



Appendix 4: List of consulted stakeholders and their Signatures

Jhelum & Tawi Flood Recovery Project

Name of the Sub Project: Govt Girls middle School
 Location: Batwala Govt Boys Primary School
 Date: 28/11/2017 C.L. Time: 2:35 Pm

S.No	Name	Address	Occupation	Signature
1	Maqsood M	J. Nagar	Master	[Signature]
2	Harnida Bano	H.M.T	Master	[Signature]
3	Saima Nazki	Dampore	Teacher	[Signature]
4	Masood J	Indra Nagar	Teacher	[Signature]
5	Neebu Saraf	Sheikhpura	Teacher	[Signature]
6	Shuguffa Nazki	Bul Bul Bazar	Teacher	[Signature]
7	Anjali Koul	Indra Nagar	Teacher	[Signature]
8	Sudipa Dhar	Sheikhpura	Teacher	[Signature]
9	Rafia Dousar	Noorpur	Teacher	[Signature]
10	T. Dalina	Rajpura	Teacher	[Signature]
11	Maloch Kishan	Zubair	Tr	[Signature]
12	Geetanjali Koul	Indra Nagar	Tr	[Signature]
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