

## District Survey Report

A-PDF Watermark DEMO: Purchase from www.A-PDF.com to remove the watermark

(Name of the district)

## West Bengal

## 1. Preface (Why is DSR required, purpose of DSR)

*[Identification of areas of aggradations or deposition where mining can be allowed; and identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited and calculation of annual rate of replenishment wherever applicable and allowing time for replenishment (in case of riverbed minerals) after mining in that area.]*

## 2. Introduction (on the district)

## 3. General Profile of the district

## a) General Information

Geographical Area, Geographical Position, Administrative Divisions (Sub-Divisions, Blocks), No. of Panchayat/Villages, Population (As per Census 2011)  
Population Density (As per Census 2011)

## b) Climate Condition

## c) Rainfall (month-wise) and humidity

## d) Topography &amp; Terrain

## e) Water Course &amp; Hydrology

## f) Ground Water Development

## g) Drainage System (general)

## h) Demography

## i) Cropping Pattern

## j) Land Form and Seismicity

## k) Flora

## l) Fauna

## 4. Physiography of the district:

General Landform, soil and rock pattern, different geomorphological units

## 5. Land use pattern of the district:

a) Forest, b) Agriculture & Irrigation c) horticulture and d) Mining

## 6. Geology:

Regional and local with geological succession

## 7. Mineral wealth:

Overview of mineral resources (covering all minerals).

Details of resources

(A) Sand and other riverbed minerals:

(i) **Drainage System** (Description of main rivers/streams, Salient features of important rivers and streams, list of villages, which the rivers pass through)

a) Drainage system with description of main rivers

S.No.	Name of the River	Area drained (Sq. Km)	% Area drained in the District

b) Salient Features of Important Rivers and Streams:

S.No.	Name of the River or Stream	Total Length in the District (in Km)	Place of origin	Altitude at Origin

(ii) **Annual deposition of riverbed minerals**

Evaluation based on following parameters:

a) **Geomorphological studies**

- i) Place of origin
- ii) Catchment area
- iii) General profile of river stream
- iv) Annual deposition factor (Process of deposition, Mode of sediment transport, Sediment transport in rivers, Sediment Influx Rate, Recharge Rate, Estimation of Sedimentation, Sedimentation Yield)
- v) Replenishment
- vi) Total potential of minor mineral in the river bed.

b) **Geological studies**

- i) Lithology of catchment area
- ii) Tectonics and structural behavior of rocks

c) **Climatic Factors**

- i) Intensity of rainfall
- ii) Climate Zone
- iii) Temperature variation

**Annual deposition**

S.No.	River or Stream	Portion of the river or stream recommended for mineral concession	Length of area recommended for mineral concession (in kilometer)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tone) (60% of total mineral potential)
Total for the District						

**(iii) Riverbed Mineral Potential**

Boulder (Cubic metre)	Pebbles/Gravel (Cubic metre)	Sand/White Sand (Cubic metre)	Total Mineable Mineral Potential (Cubic metre)

**(iv) Riverbed Mineral Potential Zones**

S.No.	River or Stream	Location of potential zones				Area within prohibited zone as per rule 3 of WBMMC Rules, 2016
		Administrative Block	Mouza	Plot no.s	Co-ordinates	

**(B) In-situ Minerals:**

Information on occurrence of each of the in-situ minerals are to be mentioned separately.

Name of mineral	Name of associated minerals, if any	Host rock of mineralization	Area of mineralized zone	Depth of mineralization	Whether virgin or partially excavated
1	2	3	4	5	6

Nature of land (whether free for mining/forest/agricultural)	Mineral reserve (approximate) mentioning grade	Location of potential mineralized zones				Area within prohibited zone as per rule 3(7) of WBMMC Rules, 2016	Infrastructure available near the mineralized zone
		Administrative Block	Mouza	Plot No.s	Co-ordinates		
7	8	9			10	11	

**9. Overview of mining activity in the district**

(a) General overview

(b) List of existing mining leases of the districts with location, area, period for each minor mineral.

Sl. No.	Name of mineral	Name of the lessee	Location and area of mining lease	Period of lease	Status (working/Closed)

(c) Detail of production of sand and other minor minerals during last three years.

**10. Details of revenue generated from mineral sector during last three years.**

Year	Royalty/dead rent	Cess	Surface rent	Total revenue

### 11. Transport (Railway, road)

Emphasis on local transport infrastructure from mineral transport point of view.

### 12. Summary

List of Maps/Figures and Tables to be attached:

#### Maps/Figures

1. Location map
2. Demography (bar and pie charts)
3. Land Use Pattern of the district (bar and pie charts)
4. Cropping Pattern of the district (bar and pie charts)
5. Geological map of the district
6. River System of the district
7. Land use pattern of the district
8. Figures showing sediments transport, Excavation Pit Geometry
9. Map showing transport infrastructure and important towns/District, Sub-Division and Block headquarters
10. Mineral map showing occurrence of all minerals (except sand) with roads, and important towns/District, Sub-Division and Block headquarters.

#### Tables

- Table1: Drainage system with description of main rivers  
 Table2: Salient features of important Rivers and streams  
 Table3: List of villages which rivers pass through  
 Table4: Annual deposition in the rivers of the district  
 Table5: Riverbed Mineral potential of the district and potential zones of the district  
 Table6: Distribution of Forest in the district  
 Table7: Demographic details of the district  
 Table8: Land use pattern of the district  
 Table9: Cropping pattern of the district  
 Table10: Catchments Details of the rivers in the district  
 Table11: Annual Rainfall of the district  
 Table12: Occurrence of in-situ minerals of the district  
 Table13: Occurrence of in-situ minerals of the district  
 Table14: Details of Revenue received on minerals during last three years  
 Table15: List of Mining leases in the district

*Note: For the purpose of gathering information on mineralization, production, revenue, rivers and streams, existing mining leases, etc. the regional/zonal/local offices of GSI, Directorate of Mines and Minerals, District Administration, L&LR Department, I&W Department and other Govt. offices may be contacted when required.*