

## DISTRICT SURVEY REPORT

### (DISTRICT : COOCH BEHAR)

**1) Introduction:** - There are more than 30 nos. of large river flowing through the jurisdiction of this District Coochbehar. Most of these rivers originate from the Himalayan range of Bhutan, Sikkim and China. The district Coochbehar is located just at the foot of the mountain. The rivers arrive here at the plain terrain immediately after coming down of the mountain, so the velocity and energy level of the rivers get dissipated here and results deposition of huge river bed materials on the river bed. It is the common phenomenon of the north Bengal Rivers particularly, of this District Rivers, the beds of the rivers are getting raised due to deposition, it also results meandering of river courses. The rivers change their courses irregularly resulting loss of land and properties. Desiltation of the river beds could be the solution to coup up with the same, but it is huge to afford. The rivers of this district usually deposit river bed materials, which is of the variety of silty sand mixed with clay.

These deposited river bed materials are hardly used as construction materials. The common practice, here in this district is to extract the said bed materials from the river bed and transport for the use of rising low line area, plinth filling, construction of road, rail embankment etc. As per the preceding norms, royalty permits used to be issued for extraction of such bed materials from some sustainable and appropriate locations of the river bed of different rivers for making according use of the same, which result favorable.

**2) Overview of Mining Activity in the District** :- Except the extraction of river bed material as minor mineral, commonly known as “Bharat” from the river beds of different rivers of the district from some appropriate, suitable locations, there is hardly available any other minerals, so far there have been 21 (Twenty one) such suitable, sustainable locations from where the extractions of minor minerals have been carried out on the basis of the preceding norms of extraction of river bed materials on different rivers , As per the record lying with this office, a total quantity of 270300 cum of bed materials from different beds of rivers of this district have been extracted during the year 2015 - 2016.

### 3) List of Mining leases

Sl.No.	Location PS	Mouza	Upstream & Downstream Latitude of the boundary of prospective mining area	Upstream & Downstream Longitude of the boundary of prospective mining area	Length of prospective mining area (m) approx. (to be calculated from Col. 6&7)	Width of prospective mining area (m) approx. (to be assessed from field report)	Area in hecter	Period of Validity (Days)
1	Tufanganj	Balarampur	26°16'9.3" N	89°35'17.6" E	700.00	70.00	4.90	30 days
			26°15'53.7" N	89°35'35.9" E				
2	Kotwali	Lankabar	26°18'26.1" N	89°29'0.5" E	261.00	100.00	2.61	21 days
			26°18'30.5" N	89°29'8.5" E				
3	Kotwali	Harinchora	26°17'23.40" N	89°27'33.2" E	500.00	100.00	5.00	15 days
			26°17'33.8" N	89°27'46.9" E				
4	Kotwali	Kholta	26°27'45.4" N	89°32'44" E	200.00	50.00	1.00	15 days
			26°27'43.4" N	89°32'37" E				
5	Boxirhat	Mohishkuchi	26°23'42" N	89°45'53" E	255.00	190.00	4.85	15 days
			26°23'39" N	89°45'57" E				
6	Boxirhat	Jaldhowa Ghat	26°23'37" N	89°46'45" E	700.00	70.00	4.90	15 days
			26°23'49" N	89°47'08" E				
7	Boxirhat	Chhat Valka	26°27'24.17" N	89°51'22.38" E	270.00	185.00	5.00	15 days
			26°27'15.2" N	89°51'23.6" E				
8	Boxirhat	Madhurbhasha	26°26'45" N	89°46'03" E	510.00	95.00	4.85	15 days
			26°26'34" N	89°45'56" E				
9	Boxirhat	Naziram Deutikhata	26°27'37.20" N	89°51'26.2" E	500.00	100.00	5.00	15 days
			26°27'50" N	89°51'37.4" E				
10	Kotwali	Basdaha-Natibari	26°24'42.78" N	89°19'58.43" E	200.00	100.00	2.00	15 days
11	Kotwali	Putimari-Boxirbosh	26°25'46.44" N	89°19'39.83" E	200.00	130.00	2.60	15 days
			26°25'40.80" N	89°19'43.69" E				
12	Kotwali	Haripur	26°21'50.52" N	89°21'54.88" E	200.00	110.00	2.20	21 days
			26°21'46.29" N	89°21'59.05" E				

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13	Kotwali	Ghoramara	26°24'39.36" N	89°20'15.89" E	300.00	150.00	4.50	20 days
			26°24'30.29" N	89°20'19.37" E				
14	Mathabhanga	Bhogramguri	26°25'57.36" N	89°4'12.94" E	400.00	30.00	1.20	15 days
			26°25'48.56" N	89°4'23.46" E				
15	Mathabhanga	Bhogramguri	26°26'29.04" N	89°2'33.94" E	400.00	30.00	1.20	15 days
			26°26'30.15" N	89°2'48.29" E				
16	Mekhiliganj	Nagar Changrabandha	26°24'53.71" N	89°55'40.32" E	240.00	30.00	0.72	10 days
			26°24'47.06" N	89°55'44.62" E				
17	Mekhiliganj	Jamaldaha	26°26'15.38" N	89°0'42.31" E	350.00	35.00	1.23	15 days
			26°26'14.85" N	89°0'55.57" E				
18	Mekhiliganj	Andaran Panisala	26°26'24.19" N	89°55'32.67" E	380.00	30.00	1.14	15 days
			26°26'34.27" N	89°55'34.45" E				
19	Mekhiliganj	Jamaldaha hat	26°26'16.58" N	89°1'32.62" E	350.00	35.00	1.23	15 days
			26°26'17.4" N	89°1'45.38" E				
20	Ghoksadanga	Fulbari	26°28'30.86" N	89°7'23.08" E	157.00	202.00	3.17	21 days
			26°28'30.62" N	89°7'28.95" E				
21	Mathabhanga	Gadaler Kuthi	26°22'50.52" N	89°10'16.32" E	150.00	40.00	0.60	21 days

#### 4) Royalty collected during the last 3 years.

2013-2014	—	Rs. 3773920.00
2014-2015	—	Rs. 9457200.00
2015-2016	—	Rs. 23640.00

#### 5) Total quantity of minor minerals produced during the last 3 years:- 360900 cum.

**6) Process of deposition of sediments in the rivers of the District, Coochbehar:-** As far as the location of the district Coochbehar is concerned, it is lying just at the foot hill. Rivers carry huge silt while coming down the hilly region. Rivers get plain terrain while entering this district. The velocity of flow gets diminished and sedimentation takes place. It has been observed that the locations where mining activity has been taken place, at the end of monsoon it replenishes entirely.

7) **General profile of the District Coochbehar :-** Coochbehar is a District under the Jalpaiguri Division of the state of West Bengal. There are five sub- Divisions in this District. They are 1) Coochbehar Sadar 2) Dinhata 3) Mathabhnga 4) Mekhliganj 5) Tufanganj. There are twelve blocks in this district. They are 1) Coochbehar-I 2) Coochbehar-II 3) Dinhata –I 4) Dinhata-II 5) Haldibari 6) Mathabhnga-I 7) Mathabhng-II 8) Mekhliganj-II, 9) Sitai 10) Sitalkuchi, 11) Tufanganj-I 12) Tufanganj-II.

8) **Land Utilization pattern in the District Coochbehar :-** Forest and Agriculture.

9) **Physiographic of the District Coochbehar :-** North Eastern part of West Bengal, bounded by the district of Alipurduar in the north and Jalpaiguri in the North- West, State of Assam in the east and the international border in the form of Indo- Bangladesh boundary in the South West, south and south east, Coochbehar district lies between 25 57 '47" & 26 36'20" North latitude, between 88 47'44" & 89 54' 35" East longitude. The area of the district Coochbehar is 3387 Sq Kms.

10) **Rainfall of the District Coochbehar :-**

**MONTHLY RAINFALL DATA (IN MM) AS RECORDED AT COOCHBEHAR FROM 2011 to 28.07.2016**

Year	Month												Total	Highest Rainfall
	Jan	Feb	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec		
2011	3.00	8.40	97.20	200.10	294.90	437.50	921.30	534.90	387.20	2.50	5.00	6.00	2898.00	239.20 Dt.18/9/11
2012	4.10	16.20	6.50	140.90	374.70	1176.60	946.30	429.20	592.40	229.10	Nil	Nil	3916.00	252.00 Dt-6/7/2012
2013	Nil	19.60	2.60	173.30	354.20	390.30	554.30	324.20	595.40	177.60	13.00	Nil	2604.50	170.80 Dt-7/9/2013
2014	0.80	23.50	7.30	6.20	560.70	671.80	231.00	445.10	566.50	4.40	Nil	0.20	2517.50	231.20 Dt-22/09/2014
2015	23.40	42.20	78.00	137.20	472.40	620.40	187.10	933.20	485.60	22.30	11.60	5.20	3018.60	181.20 Dt-01/06/15
2016	5.40	0.20	74.60	146.00	288.20	1033.30	873.90						2421.60 28/07/16	218.00 Dt-25.06.16

11) **Geology and Mineral wealth :-**

Major Mineral :- NIL

Minor Mineral :- In the form of 'Bharat' river bed materials is available.

Drainage system with description of main river

SL NO	NAME OF RIVER	AREA DRAINED (SQ. K.M)	%AREA DRAINED IN THE DISTRICT (SQ. K.M)
1	TORSA	354.42	17.10
2	KALJANI	70.00	11.71
3	GODADHAR	15.75	16.86
4	RAIDAK-I	59.20	15.19
5	RAIDAK-II	252.00	5.14
6	SANKOSH	256.00	6.25
7	DHARALA	7.2	72.50
8	MANSAI	259.2	33.41
9	SUTUNGA	11.10	83.33

Salient Features of Important Rivers and Streams.

SL NO	NAME OF RIVER	Total Length in the District (in K.M.)	Place of Origin	Altitude at Origin	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession (in K.M.)	Average width of area recommended for mineral concession (in K.M.)	Area recommended for mineral concession (in Square metre)	Mineable mineral potential (in metric tonne)(60% of total mineral potential)
1	TORSA	61.00	Chumbi Valley, Tibet, China	Lati-27°50'11.28"N Longi-88°55'38.64"E					
2	KALJANI	41.06	Chhukha, Bhutan	Lati-26°54'35.66"N Longi-89°28'09.08"E					
3	GODADHAR	59.54	Tashi Gaon, India	Lati-26°46'18.40"N Longi-89°36'06.50"E					
4	RAIDAK-I	56.20	Paro, Bhutan	Lati-27°39'05.50"N Longi-89°24'39.50"E					
5	RAIDAK-II	18.50	Paro, Bhutan	Lati-27°39'05.50"N Longi-89°24'39.50"E					
6	SANKOSH	20.00	Laya, Bhutan	Lati-28°03'45"N Longi-89°42'37.20"E					
7	DHARALA	29.00	Nimna Tundu Forest, West Bengal	Lati-26°42'36.30"N Longi-88°47'50.06"E					
8	MANSAI	64.14	Kupup, Sikkim.	Lati-27°20'41.09"N Longi-88°50'29.05"E					
9	SUTUNGA	50.0	Jhajangi,jalpaiguri,west bengal	Lati-26°56'02.01"N Longi-89°28'28.42"E					



SL. NO	River or Stream	Portion of the river or stream recommended for mineral concession	Length of area recommended for mineral concession(in K.M.)	Average width of area recommended for mineral concession(in metre)	Area recommended for mineral concession(in Square metre)	Mineable mineral potential (in metric tonne)(60% of total mineral potential)
1	TORSA					
2	KALJANI					
3	GODADHAR					
4	RAIDAK-I					
5	RAIDAK-II					
6	SANKOSH					
7	DHARALA					
8	MANSAI					
9	SUTUNGA					
Total for the District						