

## **Stone Quarrying**

Having provided the responsibility of stone supply and the nationalized sand extraction and supply as the additional mandate of NRDCL issued by the Royal Government vide Executive Order dated 7<sup>th</sup> November 2007 in addition to its original mandate of timber extraction and supply the NRDCL Management started applying for leasing of quarry with the Ministry of Economic Affairs from September 2008.

Further, with the executive order from the Lhengyel Zhungtshog on 10<sup>th</sup> May 2010, the NRDCL received directives to open up quarries around the country to supply quality construction materials at affordable costs to the construction industry within the country, to ensure its ready availability, and for export to India and Bangladesh to generate additional revenue for the company and the country as a whole. As per the order, NRDCL should be leased with large stone quarries.

As on 15<sup>th</sup> January 2014 the NRDCL identified 70 potential quarries around the country and applied to Department of Geology and Mines for leasing, out of which 46 sites were assessed as unfeasible for further processing because of quality and non-permissible locations. Over a period of 5 years, the NRDCL was leased 5 stone quarries by the DGM after fulfilling all mandatory clearances from local community, local government, National Land Commission, Department of Forests & Park Services, and National Environment Commission. The other 19 sites are under various stages of stakeholder clearances and detailed feasibility stage.

Out of five leased quarries, three (Homdhar, Tsangkhar & Ngangshing) are under advanced developmental stage to supply the raw materials to the 100 TPH and 30 TPH crushing plants. The fourth quarry (Petakarp) is awaiting developmental works and it is earmarked for supply of stone to Wangduephodrang Dzong Reconstruction Project. The developmental work at the fifth quarry (Chimithangka) is stalled due to inferior quality stone, remoteness, high competitiveness and slow-down in construction activities due to freezing of housing loans and rupee shortage. Based on the regulatory requirements, the quarry operations are under supervision of certified managers who function under the overall supervision of a qualified, competent and highly experienced Mining Engineer stationed at the corporate head office who is also assigned the responsibility to manage the operation of its six crushing plants spread over three NRDCL Regions in the central and eastern part of the country.

Sl No	Particulars/Crushing Plants	Tingzam	Bhur	Homdhar	Kencholing	Golanti	Ngangshing
1	Location	Gyelpoizhing	Gelephu	Tingtibi	Trashiyangtse	Daipham	Tshelingor
2	Dzongkhag	Mongar	Sarpang	Zhemgang	Trashiyangtse	S/Jongkhar	Pemagatshel
3	Capacity of crushing plant	100 TPH	30TPH	100 TPH	30TPH	30TPH	30TPH
4	Product sizes	20-40mm, 10-20mm, 5-10mm, -5mm	10-20mm, 5-10mm, -5mm	20-40mm , 10-20mm, 5-10mm, -5mm	20-40mm, 10-20mm, 5-10mm, -5mm	20-40mm, 10-20mm, 5-10mm, -5mm	20-40mm, 10-20mm, 5-10mm, -5mm
5	Present source of stone	Surface collection from Tsangkhar road	Paithakhola/Dholkhola	Quarry road development site/ Surface collection	Surface collection site	Golanti riverbed	-
6	Source of raw material	Tsangkhar quarry	Paithakhola riverbed	Homdhar quarry	Surface collection site	Golanti riverbed	Ngangshing quarry
7	Date of commissioning	17 <sup>th</sup> July 2011	Feb-12	9 <sup>th</sup> Oct 2012	12 <sup>th</sup> September 2012	8 <sup>th</sup> October 2012	25 <sup>th</sup> October 2013
8	Manager	Mr.Gem Dorji	Mr. Jiwan Adhikari	Mr. Tshewang Dorji	Mr. Ugyen Tenzin	Mr. Ugyen Lhendup	Mr. Thinley Jamtsho
9	Contact No.	17667372	17310822	17807071	17769821	17848976	17718071



### Rates for Aggregates from Crushing Plant

SLNo	Dzongkhag	Location	Sizes	Rates per cft.
1.	<b>Bhur Crushing Plant (30 TPH)</b>			
	Sarpang	Gelephu	5 MM	3.00
			10 MM	23.25
			20 MM	24.20
40MM			22.00	
2.	<b>Golanti Crushing Plant (30 TPH)</b>			
	Samdrupjongkhar	Daifam/Jomotshangkha □	5 MM	3.00
			10 MM	28.50
			20 MM	30.00
40MM			27.00	
3.	<b>Kencholing Crushing Plant (30 TPH)</b>			
	Trashiyangtse	Kencholing	5 MM	5.50
			10 MM	27.50
			20 MM	30.00
40MM			26.50	
4.	<b>Ngangshing Crushing Plant (30 TPH)</b>			
	Pemagatshel	Ngangshing	5 MM	5.50
			10 MM	28.50
			20 MM	29.00
40MM			25.50	
5.	<b>Homdhar Crushing Plant (100 TPH)</b>			
	Zhemgang	Tingtibi	5 MM	5.50
			10 MM	27.75
			20 MM	28.25
40MM			26.00	
6.	<b>Tingzam Crushing Plant (100 TPH)</b>			
	Monggar	Tingzam	5 MM	3.00
			10 MM	25.50
			20 MM	26.00
40MM			24.00	

### Rates for Stones from Quarries

Sl No.	Name of quarry/ collection sites	Selling Rates	
		(Nu./MT)	(Nu./Cft.)
1	Ngangshing quarry	355.75	15.26
2	Homdhar quarry	363.11	15.57
3	Tsangkhar quarry	353.60	15.16