

Maddhapara Granite Mining Company Limited (MGMCL)

**GRANITE**

**Head Office:**

Phone : +88 05222 56401, +88 05222 56409, +88 05222 56432

E-mail : [info@mgmcl.org.bd](mailto:info@mgmcl.org.bd), Fax : +88 - 05222 – 56400

<http://www.mgmcl.org.bd>

### **Introduction:**

Geological Survey of Bangladesh (GSB) discovered the deposits of hard rock at 136 meter depth at Maddhapara, Parbatipur of Dinajpur district in 1974. The following techno-economic feasibility study carried out by different agencies to construct an underground hard rock mine in Maddhapara area.

Discovery	:	1973-74, by Geological Survey of Bangladesh
Feasibility Study	:	1976-77, by SNC, Canada
Hydro-geological Study	:	1984-85, by Australian Ground Water Co. Ltd., Australia
Market Study	:	1989-90, by Nippon Koi, Japan

### **Implementation Contract of the Mine:**

A bilateral agreement between Government of Bangladesh and Democratic Republic of Korea was signed in 1992 for extending Economic, Commercial and Technical & Scientific Cooperation between the two countries. Based on the agreement, a Contract was signed between Petrobangla and South-South Cooperation Corporation (NAMNAM) of DPR Korea on 27-03-1994 for development of Maddhapara Hard Rock Mining Project on Turnkey basis under Suppliers Credit and accordingly NAMNAM has undertaken physical works of the Project from September 1994 as first underground mine in Bangladesh.

Name of the Project	:	Maddhapara Hardrock Mining Project
Contractor	:	South-South Cooperation Corporation (NAMNAM) of DPR Korea.

Contract Type : Turnkey & Fixed Price  
Contract Duration : September, 1994 to July, 2001

### **Consultant of the Mine:**

Consultant Firm : Kopex S,A, Poland  
  
Contract Duration : January, 1995 to July, 2001  
Extension of the Contract : Upto July, 2007

### **Salient Features of the Mine:**

Mining Area	:	1.2 Square kilometer
Mine Reserve	:	174 Million Metric Tons (Based on 10 borehole data)
Recoverable Reserve	:	73 Million Metric Tons (42% of the Reserve)

Design Production Capacity	:	1.65 Million Metric Tons per Years ( 5,500 Metric Tons per Day)
Design Life	:	48 years which will be extended up to 70 years
Method of Extraction	:	Room & Pillar Sub-Level Stopping Method
Dimension of Stopes	:	230m x 20m x 60m
Mode of Entry	:	By two vertical shaft (Cage Shaft and Skip Shaft)

#### **Production under development period and MGMCL's management:**

In the contract annual production was targeted 16.5 Lack Metric Ton at the rate of 5,500 Metric Ton per day but lack of experts as well as financial constraint it was not possible to achieve the target production. However, the completion of the project was earmarked by July 2001. As the mine was substantially completed, MGMCL took over the mine on 25-05-2007 issuing Conditional Acceptance Certificate to NAMNAM and start the commercial production of the mine. Ultimately, the mine was completely taken over by MGMCL on 04-11-2010. MGMCL continue the commercial production of the mine at its' own management with the assistance of a few Korean Expert until 20-02-2014.

Production during development period	:	3,86,345.00 Metric Ton
Trial and Testing Production by NAMNAM	:	57,431.93 Metric Ton
Production under MGMCL management	:	<u>16,12,192.07 Metric Ton</u>
		20,55,969.00 Metric Ton

#### **Engagement of Mine Management contractor :**

A contract was signed on 2.9.2013 between MGMCL and GTC to achieve the target production of 9.2 million metric ton of stone including development of 12 new stopes with Management of Operation and Development, Production, Maintenance and Provisioning Services of Maddhapara Hard Rock Mine.

Name of Contract	:	Management of Operation and Development, Production, Maintenance and Provisioning Services of Maddhapara Hard Rock Mine
Employer	:	Maddhapara Granite Mining Company Limited (MGMCL), Maddhapara, Dinajpur, Bangladesh.
Contractor	:	Germania-Trest Consortium (GTC) BGMEA Complex (Level-6), 23/1, Pantha Path Link Road, Kawranbazar, Dhaka-1215, Bangladesh.

A joint venture of

JSC <TREST SHAKHTOSPETSSTROY>

223710, Minsk region, Soligorsk District  
Soligorsk-4, Belarus.

and

Germania Corporation Limited  
BGMEA Complex (Level-6), 23/1, Pantha Path Link Road,  
Kawranbazar, Dhaka-1215, Bangladesh.

Contact Duration : 2013 to 2019 (6 years)  
Production Target : 9.2 million metric ton  
Development Target : 12 new stopes and necessary roadways  
Annual Production Target :

(in million metric ton)

1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	6 <sup>th</sup> Year	Total
0.9	1.4	1.6	1.7	1.8	1.8	9.2

Production under the contract (up to September , 2015) : 11,92,877.32 Metric Ton

#### Product, Price and Uses:

Maddhapara Mine produces different size of stone as construction material of which sizes and uses are as follows:

Category	Size (in diameter)	Price (April, 2016)*	Uses
Boulder	>250mm	US\$ 22/ton + (VAT US\$ 0.90/ton)	River Training & Embankment
Crushed Stone	60-80mm	US\$ 22/ton + (VAT US\$ 0.90/ton)	Road, Railway and Runway
	40-60mm	US\$ 25/ton + (VAT US\$ 0.90/ton)	
	20-40mm	US\$ 23/ton + (VAT US\$ 0.90/ton)	Road, Building, Bridge and Heavy Construction
5-20mm	US\$ 28/ton + (VAT US\$ 0.90/ton)		

Stone Dust	0-5mm	US\$ 4/ton + (VAT US\$ 0.90/ton)	Ingredient of Cement as Fly Ash, Seal Coating of Road, hollow block etc.																		
<b>NB:</b> Price of the rock may be increased/ decreased.																					
<b>Production, Sales and Stock:</b>																					
Production during development period, Trial Production and Commercial Production by MGMCL	:	20,55,969.00 Metric Ton																			
Production under the contract by GTC (up to September, 2015)	:	11,92,877.32 Metric Ton																			
Total Production (from inception to September, 2015 )	:	32,48,846.32 Metric Ton																			
Sales upto March, 2016	:	29,47,271.19 Metric Ton																			
Stock upto March, 2016	:	<table border="1"> <thead> <tr> <th colspan="2">Size</th> <th>Stock</th> </tr> </thead> <tbody> <tr> <td colspan="2">Boulder (&gt;250mm)</td> <td>-</td> </tr> <tr> <td rowspan="4">Crushed Stone</td> <td>60-80mm</td> <td>6,754.79 Metric Ton</td> </tr> <tr> <td>40-60mm</td> <td>51,051.94 Metric Ton</td> </tr> <tr> <td>20-40mm</td> <td>-</td> </tr> <tr> <td>5-20mm</td> <td>21,620.04 Metric Ton</td> </tr> <tr> <td colspan="2">Stone Dust (0-5mm)</td> <td>1,15,690.66 Metric Ton</td> </tr> </tbody> </table>		Size		Stock	Boulder (>250mm)		-	Crushed Stone	60-80mm	6,754.79 Metric Ton	40-60mm	51,051.94 Metric Ton	20-40mm	-	5-20mm	21,620.04 Metric Ton	Stone Dust (0-5mm)		1,15,690.66 Metric Ton
Size		Stock																			
Boulder (>250mm)		-																			
Crushed Stone	60-80mm	6,754.79 Metric Ton																			
	40-60mm	51,051.94 Metric Ton																			
	20-40mm	-																			
	5-20mm	21,620.04 Metric Ton																			
Stone Dust (0-5mm)		1,15,690.66 Metric Ton																			
<b>Sales and Delivery:</b>																					
Sales Procedure	:	<ul style="list-style-type: none"> <li>➤ Directly to Govt. Agencies</li> <li>➤ Through appointed Dealers</li> </ul>																			
Number of Dealers	:	➤ 67 (Detail dealers list can be find in MGMCL website )																			
Mode of Transportation	:	<ul style="list-style-type: none"> <li>➤ By Truck/ other vehicles</li> <li>➤ By Train</li> </ul>																			
Rock Loading Charge	:	<ul style="list-style-type: none"> <li>➤ Truck – 40 Tk./ ton</li> <li>➤ Wagon- 35 Tk./ton</li> </ul>																			

**Major Consumer and Project Use Maddhapara Rock:**

Consumer	:	<u>Public</u> <ul style="list-style-type: none"><li>o Roads &amp; Highways Department</li><li>o Water Development Board</li><li>o LGED</li><li>o Public Works Department</li></ul>	<u>Private</u> <ul style="list-style-type: none"><li>o Mir Akhter Hossain Limited</li><li>o Abdul Monem Limited</li><li>o Toma Construction &amp; Company Limited</li><li>o Max Automobile Products Limited</li></ul>
Project Uses Maddhapara Rock	:	<ul style="list-style-type: none"><li>o River training works of Bangabandhu Bridge</li><li>o Hatirjheel project, Dhaka</li><li>o Runway extension works of Shahjalal International Airport, Dhaka</li><li>o Bangabandhu International Conference Center, Dhaka</li><li>o Runway extension works of Cox's Bazar Airport, Cox's Bazar.</li></ul>	
<b>Future Plan:</b>			
A study proposal has been undertaken for expansion of the mine to increase the production for meetup the demand of the stone and saving the foreign currency of the country.			