

"Hi-tech Stone Industrial Park"

Marble *City* Risalpur



Pakistan Stone Development Company

Marble & Granite Industrial Park

"An investment opportunity
in dimensional stone
sector"



Marble City Risalpur

Location and Access

- Risalpur - Hub to major up to dimensional stone quarry clusters and Motorway interchange
- Quarry clusters including Chitral, Dir, FATA, Swabi, Buner, Swat, Mansehra & Nowshera
- Approach to Market
- Railway track at Risalpur
- Adjacent to Motorway (M1)
- 40 minutes drive from Islamabad
- 20 minutes drive from Peshawar (Provincial Capital -NWFP)

Site Characteristics

- 185 Acres of land for industrial purpose and advance facilities

- 199 Industrial plots of multiple categories (8 Kanal, 4 kanal, 2 kanal)
- Excellent Infrastructure (Roads, Electricity, Sewerage & Gas-pipeline etc.)

Major Services














- Processing facilities
- Common Facility & Training Center (CFTC)
- Warehousing
- Waste Water Treatment Plants
- Mechanical & Electrical Workshops
- Waste Collection Management system
- Machinery Pool

PLANNED AUXILIARY SERVICES

- Office Block
- Clearing /Forwarding
- Expo / Stone Complex
- Stone Lab
- Model Factory
- Mosaic Handicraft & Inlay Centre
- Training institutes
- Green Parks
- Labor Colony/Residential Hostels
- Weigh Bridge (both sides)
- Bank
- Dispensary
- Commercial Area
- Mosque
- Driver Hotel
- Fire Brigade
- Filling Station
- Guest House
- Truck Station

MARBLE CITY-RISALPUR

LEGEND

	Public Buildings / Commercial
	Services
	Central Activity Area
	Office Complex + Expo
	Green
	Service Area Industry
	Grid Station
	Weigh Bridge
	Commercial Shops
	Apartment Buildings
	1 Acre - 102 Nos.
	4 Kanals - 56 Nos.
	2 Kanals - 41 Nos.



SCHEDULE OF PLOTS

S.No.	DESCRIPTION	NO. OF PLOTS
1	1 ACRE	102
2	4 KANALS	50
3	2 KANALS	41
TOTAL PLOTS		199

Marble & Granite Sector

"A Revolution Towards Prosperity"



Background

Pakistan has huge reserves of different variety of world class marble and granite. The absence of scientific quarrying practices, lack of technology, trained manpower and proper equipment however, has resulted in huge losses in form of wastages and poor quality. The age old practice of blasting is the major reason for such low and in-efficient yield. It is preventing the economy from a rich harvest of these valuable natural resource and adds to environmental degradation.

Currently, the average loss at the quarry is estimated at 85% compared to a maximum of 45% as per international standards. The wastage is further supplemented when these irregular shaped blocks are used downstream for producing finished goods. There is no practice of scientific prospecting and geological studies at quarry sites which is another impediment in fully exploiting the true potential of the quarries. Blasting often produces cracked and asymmetrical boulders. Limited choice of useful stone subsequently results in poor yield, less margins and weak competitive position in the export markets. The shock of blasting also has a collateral affect on surrounding unexplored reserves which already lose their worth even prior to being explored.

There is a wide gap between conventional practices of quarrying and modern methods. Modern technology produces dimensional stones with maximum wastage of 45%. The local investor lacks both awareness and capital to adopt these new methods. The new scientific approach not only requires modern machines but a sound infrastructure and trained manpower to run these specialized machines.

The potential of the marble and granite sector of Pakistan has recently attracted tremendous attention both from the government and the stake holders alike. The government is fully committed to upgrade this sector at a fast track to be at par with international level and has set aside considerable allocations for this purpose.

Establishment of PASDEC

In order to realize its plans for the modernization of the M&G sector, Pakistan Stone Development Company (PASDEC) has been established under the Ministry of Industries and Production as a public private partnership. It is a not for profit organization incorporated under section 42 of the Companies Ordinance, 1984 as subsidiary of Pakistan Industrial Development Corporation.

The Strategy

Vision

“To Become Globally Competitive and Socially Responsible Dimension Stone Industry.”

PASDEC is focused on extraction of “Square Blocks” through modern techniques. This strategy will have trickle down effects throughout the value chain of the industry, achieving tremendous transformational impact. The development projects of PASDEC will provide employment opportunities to far-flung remote areas and increase income incidences. This revolution in the industry as a whole requires restructuring of the entire value chain, starting from the quarrying and followed by investments in the processing capabilities with advanced technology/ up-gradation.

Initiatives to achieve the goal:

- Raise Value Chain Productivity
- Investment in Workforce Development
- Export Marketing
- Promote Strategic Partnerships (Joint Venture & Direct Foreign Investments)
- Develop Industrial & Market Information System

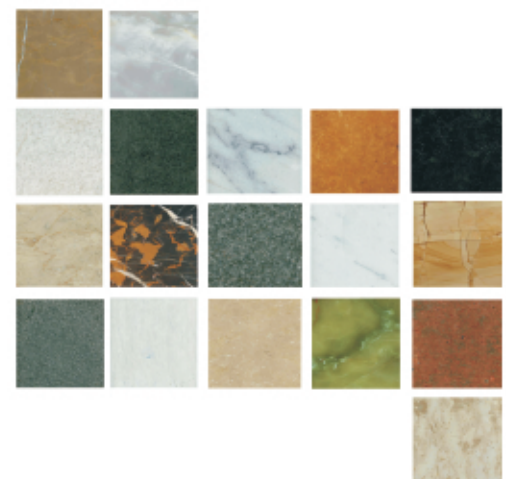


The development projects based on modern practices of quarrying envisioned by PASDEC shall transform this industry in to a globally competitive industry and an engine of economic growth for the country.

Marble & Granite Sector Strategy

The Marble & Granite sector project development strategy is part of a comprehensive plan for up-grading the dimension stone industry in Pakistan. PASDEC has already revolutionized by started the process of the M&G sector by addressing the following key strategic areas.

Projects	Total
Model Quarries	10
Up gradation	20
Machinery Pool	2
CFTC	4
Ware House	2
Marble Cities	7
Total Projects	45



Quarry development strategy-Key Features:

- 1) Prospecting & quarry selection on scientific basis
- 2) Report generation
- 3) Transformation to modern methods of quarrying
- 4) Ownership of the private sector

Adding value to the existing structure

"The beginning of transformation"

Model Quarries

The model quarry projects has introduced state of the art quarry development practices in the country benchmarking Italian standards. The project has introduced latest equipment both at extraction stage and at the downstream processing and finishing of natural stone products for local and export markets. Foreign and local experts are engaged to carry out the selection process of the quarry as a model within a cluster. The quarry development starts with the preparation of a cultivation plan by international stone experts. State of the art machinery such as chainsaw, diamond wire saw, down the hole vertical & horizontal drilling machines along with other construction machinery etc. is then employed to demonstrate efficient quarrying practices.



PASDEC successfully established the first Model Quarry in May 2008 at Khuzdar, Baluchistan. Many individuals have been trained as operators, technicians and quarry masters. Which now serve as a source of vital skilled work force for other projects. PASDEC has established second Model Quarry at Chitral which is also operational. As envisioned, these quarries are now a hall mark. PASDEC is mandated to establish 10 such model quarries across the country.

Quarry Up-gradation

The company is also in a process of upgrading the existing quarries within the country with due stake of the quarry owners. The primary objective is to promote and upgrade the quarries in terms of exploration, processing, advisory services, training and quarry cultivation / Quarry plan by international experts across Pakistan which is also supported by provision of latest quarry machinery and equipment through renting to quarry owners.



PASDEC expert team comprising of local and international stone experts visit the prospective sites and prepare a prefeasibility study of the area. After selection of the site, cultivation plan is prepared by Italian stone experts. Based upon the topography and nature of stone the machinery is selected and deployed for excavation. Our quarry upgradation projects are operational at Buner, Thatta, FATA & Mustang. PASDEC intends to gradually upgrade all the quarries in the country.



From Low end to High end

"The beginning of transformation"



Support Strategy

Research & Development

- 1) Market & technology research
- 2) Conformity & compliance to international trade requirements regarding Stone Testing & Branding
- 3) Create a pool of local and international sector experts
- 4) Mapping of stone reserves of Pakistan
- 5) Develop Academia Industry Linkages
- 6) Benchmarking industrial processes and procedures with international standards (Italy/ China/ Turkey/ Brazil/ India etc.)
- 7) Promote strategic Joint ventures with international repute institutes for developing & standardizing processes.
- 8) International accreditations and association (s)
- 9) Conduct research /strategic case studies for quality improvement and environmental concerns with academia and bodies of international repute.

It is important that once the sector is developed continuous policy reforms are carried out to ensure sustainability. PASDEC will from time to time propose policy reforms as and when needed for strengthening the stone sector. As a socio-economic initiative Value added /Export training programs in Mosaic making, inlays and handicrafts and stone will be the added feature of the sector development strategy.

Machinery Pools

Machinery pools project mainly supports the up gradation arrangement. PASDEC has initially established modern and up-to-date Machinery pools that will facilitate quarry owners in acquiring latest machinery at affordable rates leading to manifold increase in productivity. Quarrying cost will be reduced as heavy Earth moving and quarrying machinery has been imported with latest and up to date equipment available for the quarry owners on rentals basis. So far PASDEC has established machinery pools at two locations, one in North (Risalpur) and the other in South (Gaddani)

These projects offer the following machinery on rental basis.

List of Machinery

- | | |
|--------------------------|----------------------|
| ✓ Heavy Loaders | ✓ Excavators |
| ✓ Chainsaws | ✓ Wire Saws (Large) |
| ✓ Wire Saws (Small) | ✓ Compressors |
| ✓ Generators | ✓ Stitch Drills |
| ✓ Pneumatic Drills | ✓ Manual Drills |
| ✓ Down the whole Hammers | ✓ Drill Rods |
| ✓ Core Drill Machines | ✓ Air/ Water Pillows |
| ✓ Jacking Plants | |





Land of opportunities

"Cluster development"

Marble Cities

Keeping in view the success of economic zones and industrial estates in developing specific sectors, both in the developed and the newly industrialized countries, it has been decided to adopt the same strategy to uplift the marble and granite sector.

The Marble Cities will be setup under International Business/ Industry Standards. The Marble City Project shall have tremendous investment and growth potential for the entrepreneurs based on high-end industrial knowledge, innovation and services. The concept is based on a cutting edge stone technology industrial estate, custom facilities, and state of the art services combined to create the largest and most technologically advanced industrial park for Dimension Stone (Marble & Granite) Sector in Pakistan.

Marble City Risalpur

As the first step towards achieving a sound industrial base to the M&G sector, Risalpur city has been selected by PASDEC to be the first in a series of Marble Industrial Estates to be developed for targeting export markets. Located on the Nowshera-Mardan Road, 27 Miles East of Peshawar, Risalpur City holds a promising future for growth and prosperity of this sector. Land of 185 acres is provided by Sarhad Development Authority (SDA) for this project. PASDEC will develop infrastructure and services.

The strategic location of Risalpur Marble City Industrial Park makes it the right choice for both domestic and international operations.

FACILITIES AT MARBLE CITY RISALPUR

Common Facility Training Center (CFTC)

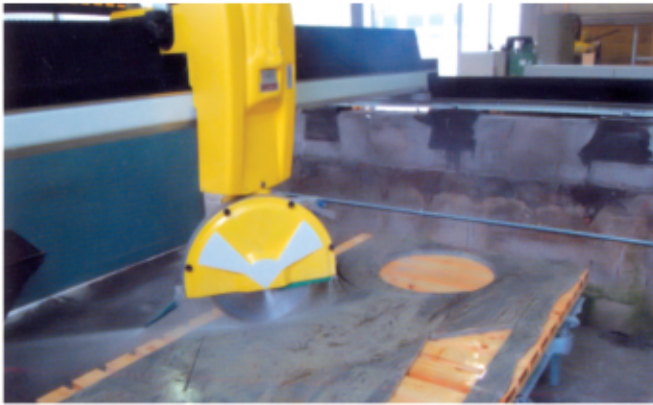
The Project will have a Common Facility & Training Centers (CFTCs) for training local Managers, Workforce & Technicians to cut square dimension blocks into slabs, polish and cut to size on the state of the art production set up according to international standards. The centers will be run by experts of International Standards. CFTCs will also have a Mosaic Development Center to provide industrial training in marble mosaic, handicrafts and inlays from Industrial waste. The common facility will provide services from warehouse, block cutting, sizing to finishing on reasonable rates to private entrepreneurs.

The CFTC will provide training and support to the industry in high tech areas such as water jet technology, chamfering, cut to size, auto polishing lines etc. provide training and support the industry, in providing processes, those are not available otherwise in individual units. CFTC would have two major components:



Best Place for Marble Processing

"A New Beginning"



1. Modern Machinery Production Lines for Cutting, Finishing, Sizing, Polishing, Square Blocks, Packaging
2. Trainings in Mosaics, Inlay, Handicraft and Cutting for semi and skilled manpower.

Other than the primary function it will also serve:

1. The Latest domestic & international market information through its up-to-date research and development system.
2. Marketing techniques and presentation/ display skills at trade fairs
3. Requirement of training in processing of stone to produce better quality products for all the current product lines such as tiles & introduce new products based on new skills development & market demand.

Proposed state of the art Machinery

- Gang Saw
- Complete Polishing Line – (Slabs)
- Splitting Machine
- Complete Polishing Line (Tiles)
- Cross Cutter
- Side Face Calibrator & Chamfered plus Dryer & Buffer
- Fork Lifter
- Slab Automatic Loading/Unloading Unit
- Mono-lama
- Gantry Crane
- Bench Cutter

Water Re-cycling Plant and Slurry Management
Marble City Risalpur provides standard operating procedures that also support the environmental friendly units. In order to address the environmental concerns, a water waste treatment plant / re-cycling unit will function under cost sharing basis with all stake holders.

Slurry waste may be utilized in the manufacturing of bricks, road construction, in cement & glass industries and in pharmaceuticals.





A door for Foreign Markets

"Going Global"

Warehouse Facility

To recuperate the supply side and ensure timely and continuous supply of raw material, PASDEC has established two warehousing facilities, one in the North at Marble City Risalpur and the other in South at Gaddani Baluchistan Marble City. This will stir up and start out bulk trading in a wide variety of natural stone products. Besides, this will also promote international credibility. Blocks of various shades and colors shall be stacked in separate lots. This will facilitate the buyers in selecting the stone of their choice and will enable them to streamline the supply of consistent product to the end users/exporters in a given time frame.

Warehouse facility consists of following facilities:

- Cutting/ Squaring Services
- Packing & Stacking
- Dressing
- Auctioning
- Sorting & Grading
- Clearing & Forwarding
- Display

The facility shall be available for the extractors and



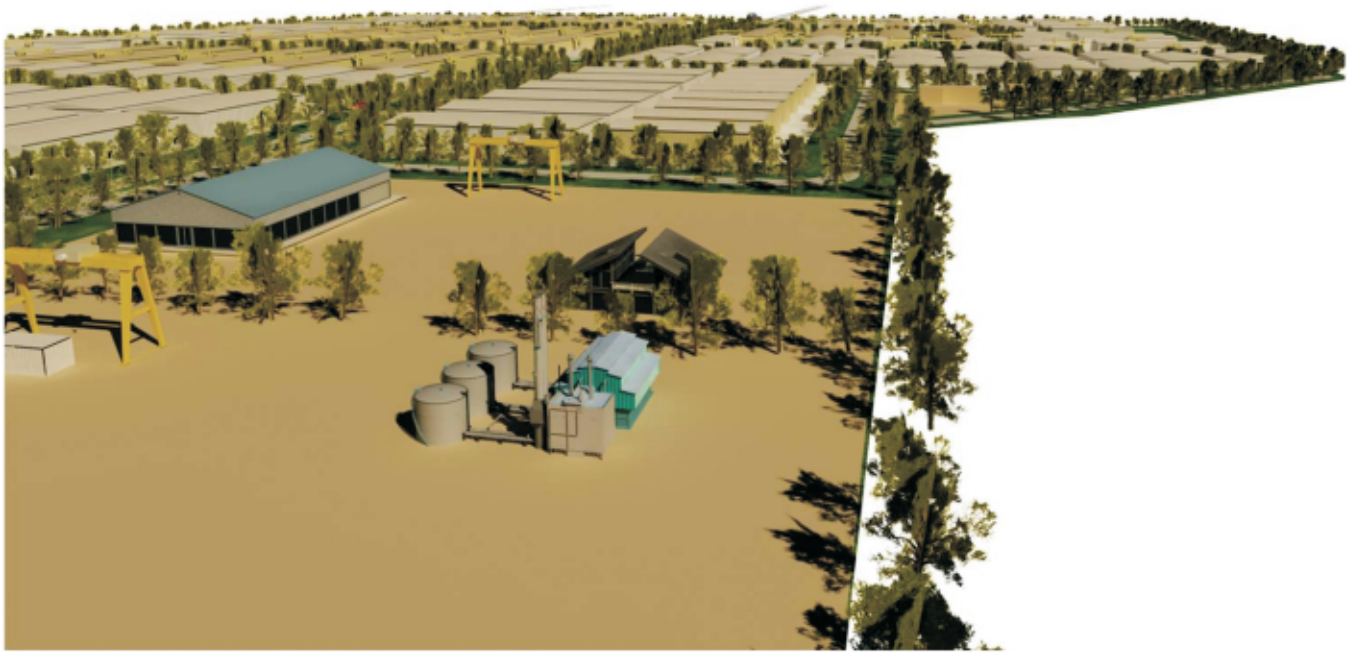
processors in the country on rental basis. It will be a common place for all M&G buyers and sellers within and outside the country.

Water Re-cycling Plant and Slurry Management

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Project Impacts

The program will have the following impacts:

- ✓ Better quality jobs in terms of working conditions and income resulting from improved skills imparted by the training;
- ✓ Reduction in quarrying waste through its utilization in making of better quality and better designed handicrafts and mosaics;
- ✓ Increased direct and secondary job creation, supporting poverty alleviation in the area ;
- ✓ Increased investment, production and higher wages as a result of higher demand and improved quality products;
- ✓ Substantial Increase in the exports

- ✓ Waste Reduction
- ✓ Sizeable Increase in Production of finest Quality of Stone

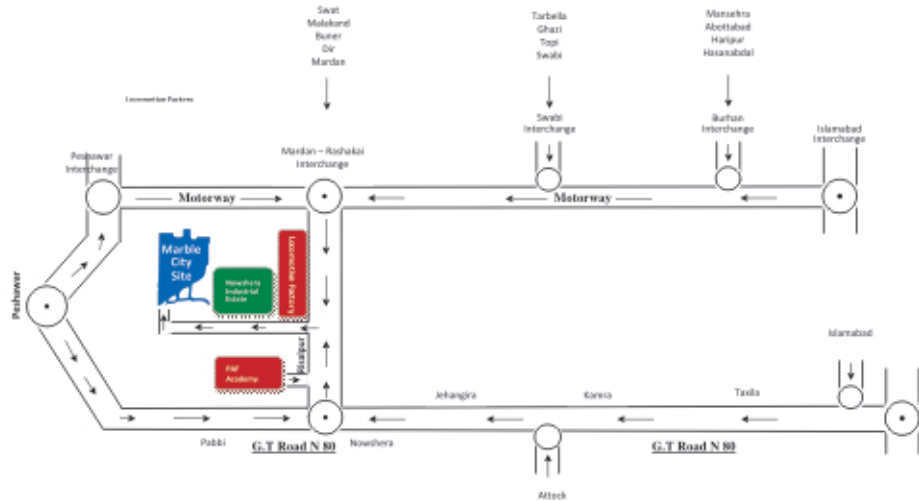
Future plans

- ✓ Up-gradation of 1400 quarries in next 15 years
- ✓ Development of 20 Marble Cities, 2000 state of the art factories
- ✓ Organize Annual international stone events in the Country .
- ✓ Establish 20 training centers of mosaic, inlays, handicrafts and stone masonry
- ✓ Establish export development and promotion centers in Italy, Florida, China and Oman

BE A PART OF THE MARBLE CITY RISALPUR

PASDEC invites applications from existing and potential investors to establish industrial units relating to Marble & Granite Industry

MARBLE CITY RISALPUR - SITE MAP



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www.pasdec.org