

# Harirod Group of Companies

## *Ready Mix Concrete & Asphalt Plants Profile*



An ISO 9001:2015  
OHSAS 18001:2007  
Certified



Certified ISO 9001:2015



Certified OHSAS 18001:2007

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CAGE Code: SET56, MOCI License # D-2719, TIN: 1013342017, JCCS ID # 80645

## Corporate Profile

Harirod Group Ready mix concrete is synonymous with high quality concrete and related products in Afghanistan since 2005. Our technology and expertise have their foundations in the long period of ownership, a premier concrete producing Group nationwide.

This, with our continuing commitment to research, development and innovation in concrete technology, is evident in our pursuit of excellence and dedication. In fact, our technical team is equipped to offer consultation services and training to our customers locally and regionally.

Harirod Group is one of the largest suppliers of ready-mixed concrete in Afghanistan, having 6 functional Ready Mix Concrete Batching Plants throughout the country and have the experience and knowledge necessary to manufacturing different types of concrete and owned several modern concrete mixing facilities.

In addition, Harirod Group's concrete distribution and placement equipment can serve the needs to handle any kind of construction project, from single-floor barracks up to 30-floor high rise buildings.



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by relationships

by commitment

by Values

by passion

## ***Our Mission***

To lead as a customer driven producer and supplier of high quality pre-mixed concrete and related products and services, providing a superior rate of return to our shareholders, whilst being committed to the development of our human resources and the preservation of the environment.

To contribute our technical know-how and expertise in concrete for enhancing the quality and the ever increasing demands of the Construction Industry.

To develop novel methods, innovative products, concrete mixed designs, through efficient utilization of natural and eco-friendly resources in Construction.



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## Quality

As an ISO 9001: 2015 certified Harirod Group shall provide quality concrete, aggregate and related services, which consistently satisfy the requirements of its customers and stakeholders.

Harirod Group will maintain its Quality Policy through the total involvement of all employees. Management will provide leadership that creates a work environment where planning, performance measurement, communication and the appropriate use of research and technology are key strategies for the continuous improvement of internal and external customer satisfaction and profitability.

The Quality Objectives of Harirod Group Ready mix shall be realized through the implementation and maintenance of a Quality Management System designed and assessed in accordance with required Standard.

Harirod Group Ready mix will utilize its Quality Management System as the basis for Continuous Quality Improvement and its quest to become a world class Company, demonstrating its commitment to quality by ensuring that all employees are adequately trained and equipped to competently perform excellent work at all times.



## Safety

### AS AN OHSAS 18001:2007 CERTIFIED

Harirod Group is dedicated to being a world leader in all aspects of its operations, including Health and Safety.

Harirod Group has a target of zero injuries and does not accept unsafe working practices. All employees are expected to ensure zero tolerance of any practices that could result in accidents and ill health, and contribute to ensuring a safe working environment by taking the necessary measures and following the correct practices. The strictest safety standard to adhere to in Afghanistan is the US Government standard which is reflected in Engineering Manual EM 385-1-1.



All Site Safety Manuals used in Harirod's are written up following this EM-385 standard to ensure compliance with the international issued construction contracts that are common in Afghanistan.

### Best practice

HARIROD GROUP strives to eradicate work-related incidents through changing behavior and encouraging employees to 'stop and think' before carrying out a task.

### Product safety

Harirod Group strives to ensure that the products are safe to transport, store, handle, use and dispose of, and has produced a series of guidelines to minimize any handling risks.

### Community safety

HARIROD GROUP strives to be a good neighbor and it is Group policy to safeguard equipment and facilities to ensure the safety of employees and local communities.

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## Mix Designs

Harirod Ready-Mix has available a wide variety of mix designs for concrete products with compressive strengths from 60 psi (Flowable Fill) to 6000 PSI, as well as a variety of specialty concrete products. Mix designs are prepared in accordance with ASTM -C192 and ACI 211 by an AASHTO accredited laboratory. Custom mix designs will also be developed in accordance with customer specifications. Our mix designs are prepared by Licensed Professional Engineer.

Harirod Ready-Mix is the preferred supplier to meet your construction needs, from residential foundation walls and driveways, commercial office buildings, highway and bridge construction, to wastewater treatment plants. Our leading-edge technical development and quality control laboratory strives to provide concrete mix designs that meet the needs of owners, engineers, and general contractors. No matter what your construction need, Aggregate Industries delivers value!

## Aggregates & mixtures

### Aggregates, Sands & Fines:

Harirod Ready-Mix uses aggregates that are certified as in compliance with ASTM C33-90 for hard rock aggregates and C330 for light weight aggregates.

Our sand is certified as in compliance with ASTM C33-90.

### Cements:

Harirod Ready-Mix uses cements that are certified as in compliance with ASTM C150.

### Standard Mixes

#### Typical Product Applications

psi	Residential	Commercial	Public	High Perfor-
2500	△	△		
3000	△	△	△	
3500	△	△	△	
4000	△	△	△	
4500	△	△	△	△
5000	△	△	△	△
5500		△		△
6000		△	△	△

#### Flowable Fill Products

Flowable Fill	Description
60 psi	CDOT FlowFill
100 psi	FlowFill
200 psi	Pumpable FlowFill
200 psi	Fast Track FlowFill

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## ***Our Services***

At last there's an alternative to bulk delivery of ready-mixed concrete that doesn't mean manual mixing. Harirod provides the happy medium - a super-convenient service that supplies concrete when you want, where you want, and in whatever quantities you need. It's the most flexible concrete delivery service there is. Harirod mixes on site to your actual requirement - not your rough estimation. So we deliver the exact amount you need - no more, no less.

### **Use of smaller quantities of ready-mixed concrete**

If you need a vast amount, ready-mixed concrete is perfectly suitable, but the large-scale ready-mixed suppliers can't always cater for the smaller quantities. Harirod specialises in the small amounts, so we're the ideal delivery service for small and medium sized jobs like driveways, garage bases, garden paths, footings and over sites.

### **We mix - you lay**

Our system guarantees the maximum efficiency for the minimum trouble. Our unique purpose built Harirod vehicles carry enough cement, aggregate and water to mix 10 cubic metres in a single delivery depending on vehicle.

### **No problems of estimation**

Surveys have shown that even professional builders can over or underestimate the amount of concrete they need by up to 40%. Often it's only possible to make a rough guess, but a rough guess is all we need. Phone us with just an approximate idea of how much you'll need and we'll be there fast, ready to mix concrete to suit your exact requirement.

### **No problem of access**

Site access can be a problem for a large ready-mixed concrete service, but not for Harirod.

As well as the many specialist contractors we number among our regular customers, even the largest of national construction companies have called us when awkward access or difficult terrain has made bulk delivery impossible.

## Preparation

...are you mixing with the right people?

### Concreting with Harirod

Concrete is easy to use and versatile. Its strength, durability and relative cheapness make it the ideal material for drives, paths, garage and shed bases.

Harirod Ready-Mix Concrete gives useful tips and advice on how to lay concrete. It is not intended to cover large jobs that need expensive equipment and detailed knowledge but is aimed at the handyman who wants to lay a drive, path, garage base or foundation at home.

If you are considering a large job, such as building your own house or project Harirod will be pleased to give further information and advice.

### Tools for the Job

Most homeowners will probably have most of the tools and materials required to lay ready mixed concrete, but it may help to check through the list below before you order.

We supply: • 2 wheelbarrows on each lorry

To ensure a good job is done you will need:

- Straight Edge - (for levelling)
- Rake - for moving concrete
- Shovels
- String - for setting out
- Tape measure
- Hammer and nails
- Float - for finishing surface
- Timber - for pegs, formwork and tamping beam
- Spirit level
- Wood saw
- Brush – for possible surface finish and cleaning up

### A Good Job is Well Planned

Time spent in planning the job will be repaid many times during subsequent stages of the project. Start by sketching a plan to see how things will fit.

If you draw this to scale it will help you to calculate how much concrete you will need. Next set the job out on the ground. Use nails with pegs and string lines to ensure that things will finish as you intend them to. All levels should be measured from a known point if possible. Don't forget that any surface adjoining a building must be at least 150mm below the damp-proof course and should be laid to slope away from the building so that water drains away.



Leveling pegs, a spirit level on a piece of straight timber can be used over short distances, use a water level made from a clear plastic pipe filled with water. Provided the pipe is carefully filled and has no air locks, the water at each end of the pipe will be exactly level. Large areas of concrete should have a fall of about 1 in 40 so that water runs off adequately. Set the high side first, then the low side.

### Preparation (Bases and Drives)

All concrete needs to have a solid base of adequate depth. Dig out the area to twice the required depth of concrete below the finished surface level. (For driveways or garage bases taking cars, the minimum thickness should be 100mm or 4").

Once dug, compact the soil in the base with a garden roller or similar, then place and compact a layer of crushed stone or hardcore, leaving sufficient space for the depth of concrete required. It is always advisable to place a layer of polythene between the stone base and the concrete prior to laying to prevent moisture from within the mix being absorbed by the dry hardcore beneath it.

### Formwork

Set the formwork around the edge of the area and nail it solidly to firm pegs spaced at regular intervals along its length, ensuring that the pegs are on the outside of the boards.

Check that all levels and falls are correct, and that pegs do not project above the formwork. Measure the depth, width and length in metres and multiply these together to determine the volume of concrete in cubic metres that you need to order. I.e. 3m x 4m x .100 = 1.2 metres cubed. If you prefer to work in yards and inches, measure the width and length in yards and multiply together to give you the area in square yards.

If you need help in calculating the amount you need give Harirod's helpful staff a ring and they will gladly work out how much concrete you need.



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## Laying the Mix

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### When you are ready to order

When you are ready to order, phone Harirod Plant Manager and specify the mix that you want and the quantity in cubic meters that you require. Agree a delivery time, giving at least 24 hours notice.

The delivery driver will be as helpful as possible in maneuvering his truck and dropping the concrete as near to your work area as he can. However, it is possible that you will have to move some concrete, either to your work area, or from one part of the project to another.

Remember that 1 cubic meter of concrete weighs about 2.5 tones which means approximately 20 barrow loads, and that you will only have an hour or so before the concrete starts to go off. So ensure you have adequate manpower for the job.

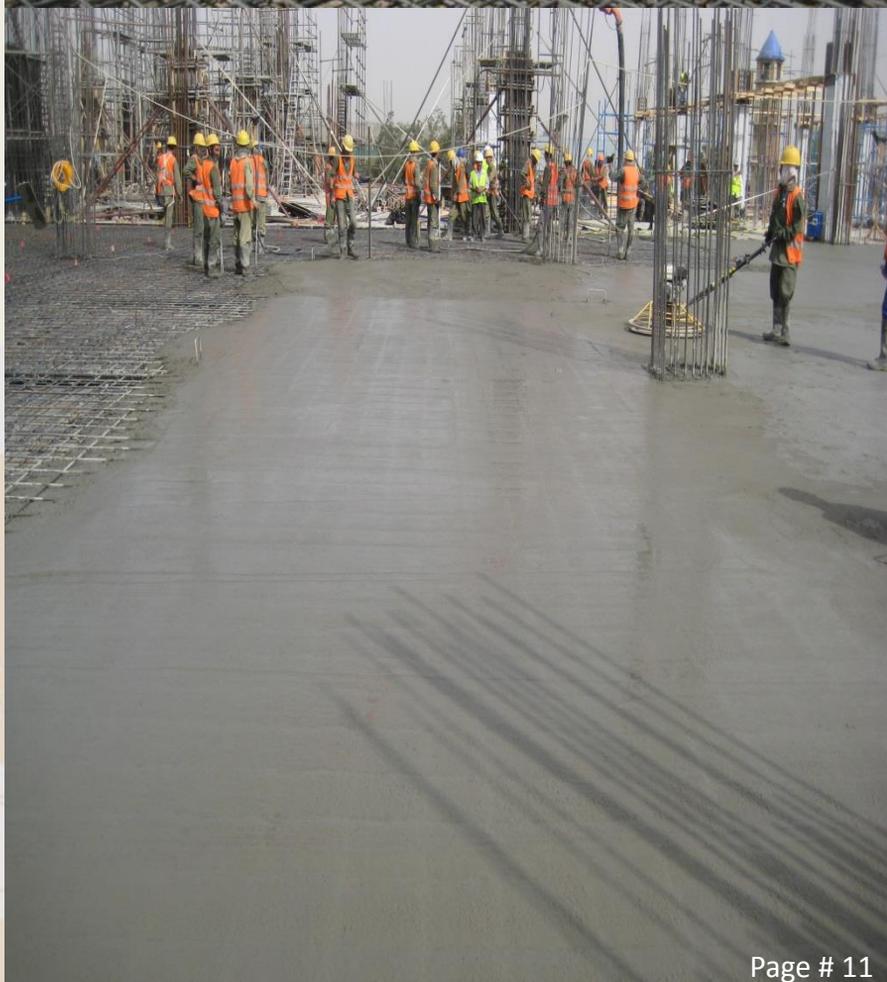


### Laying the Concrete

Spread the concrete between the formwork using a rake to distribute it evenly so that the top is about half an inch (15mm) higher than the required finish level.

Ensuring that all corners and edges are completely filled by treading the concrete in with the soles of your Wellington boots or by pushing it down with a piece of wood.

Starting at one end use a heavy wooden tamping beam to compact the concrete, and move slowly along the slab removing any excess concrete. If necessary repeat this operation until the concrete is fully compacted and the surface is level with the top of the framework.



### Finishing the Surface

Concrete can be left as tamped in which case the finish will depend on how carefully you tamp. Alternatively, there are a number of different surface finishes which can be produced after tamping.

A fine or coarse non-skid surface can be made by drawing a soft or hard sweeping brush across the surface of the concrete. Working a wooden float across the surface will give a textured surface which can be straight or circular design depending on how you move the float. A steel or plastic float will give a smooth finish.

As soon as the concrete has hardened enough not to be marked, it should be covered with polythene, weighted down at the edges, to stop it drying out too fast. The polythene can be removed after two or three days. Fresh concrete should not be allowed to freeze, so don't lay when frost is likely unless you are prepared to insulate it with a 4 inch (100mm) layer of straw between two layers of polythene.



**Curing**

It is a common misconception that concrete should be left to dry out. THIS IS NOT TRUE! Especially on hot, dry, or windy days, it is important that the concrete be protected from drying too quickly, as this can cause cracking of the fresh concrete to occur.

A weighted down polythene sheet or tarpaulin stops the concrete drying too rapidly, and helps the material develop maximum strength. Sprinkle with sand or weight around the edges to stop the sheet ballooning. We wish you every success with your project, and look forward to being your supplier of quality concrete.

If you have any problems, or want extra advice, please telephone: Harirod concrete 0093 797797009

**Safety Hints**

Concrete burns: care should be taken at all times when handling, if your skin should come into contact, hose off immediately with clean water. If it gets into the eye seek medical help immediately.

**WHY Harirod CONCRETE**

- A commitment to Customer Service, with the systems to ensure we can achieve that level of services.
- Superior Technical and Problem Resolution support.
- Access by all customers to "the right person", to achieve a result.
- The most modern fleet of delivery vehicles in the country.
- On-going Product Development
- Financially Stable Group
- Mobile Plants to service projects in remote locations
- Responsive to customer needs and requirements

- .....
- 06 Ready Mix Concrete Plants
  - 01 Asphalt Plant
  - 13 Concrete Pumps with friendly drivers
  - 65 Transit Mixers fully experienced drivers
  - 06 Loaders
  - 25 Dump Trucks with friendly drivers
  - 01 Laboratories fully equipped to enable tests within the requirements of the relevant standard.



## Asphalt

Harirod Group provide & supply the highest grade of hot mix asphalt (HMA) for our own use and to our many contractor customers from our plant throughout the Region of Mazar-e-Sharif.

Composed of aggregate for strength and liquid asphalt as a binder, HMA offers many benefits.

HMA pavements are versatile and are designed to handle different traffic conditions. HMA is economically produced and applied with minimal inconvenience to the motoring public. At the end of its lifespan, HMA is 100 percent recyclable.

### Asphalt Paving

With a highly skilled team using the most advanced technology in the industry, Harirod Group produces award-winning paving projects and sets the standard for the region of Mazar-e-sharif. As Mazar's largest paving contractor, we have used our expertise to enhance airport runways and taxiways, harbor wharves and container yards, interstate freeways, highways, bridges, roadways, bike paths, tennis courts, driveways, and parking lots throughout our state.

### Smooth Operations

Harirod is a leader in the use of new innovations. Our paving division completed Mazar largest road Asphalt Pavement project.



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## Our Customers

### Afghanistan Government

- Ministry of Defense. Website: <http://mod.gov.af/en>
- Ministry of Interior. Website: <http://moi.gov.af/en/>
- Ministry of Transport and Civil Aviation. Website: <http://motca.gov.af/en>
- Ministry of Civil Aviation Authority. Website: <http://www.acao.gov.af/en>
- Ministry of Public Health Website: <http://moph.gov.af/en>
- Ministry of Education. Website: <http://moe.gov.af/en/>
- Office of Administrative Affairs & Council of Ministers Secretariat. Website: <http://aop.gov.af/english/>

### International Clients:

- German Agency for Technical Relief THW. Website: [https://www.thw.de/EN/Homepage/homepage\\_node.html](https://www.thw.de/EN/Homepage/homepage_node.html)
- PRT Northern Lights Sweden. Website: [http://www.globalsecurity.org/military/world/afghanistan/mazar\\_e\\_sharif.htm](http://www.globalsecurity.org/military/world/afghanistan/mazar_e_sharif.htm)
- Netherlands PRT, Mazar-e-Sharif ISAF. Website: <http://www.nato.int/isaf/topics/prt/>
- Japan International Cooperation Agency JICA <http://www.jica.go.jp/afghanistan/english/index.html>
- Pacific Consultants International Japan (PCI) Website: <https://www.pacific.co.jp/e/>
- Dai Nippon Construction Company (DNC) Website: <http://www.dnc.co.jp/en/index.html>
- Kitano Construction Corp. Japan. Website: <http://www.kitano.co.jp/english/company/profile.php>
- German Agency for Technical, Cooperation. Website: <http://orgs.tigweb.org/german-agency-for-technical-cooperation-gtz>
- NCS Nordic Camp Supply Denmark. Website: <http://www.nspa.nato.int/en/news/news-20140915-6.htm>
- US Army Corps of Engineers AED. Website: <http://www.tad.usace.army.mil/About/TransatlanticAfghanistanDistrict.aspx>
- World Kaihatsu Kogyo Co. Ltd Japan. Website: <http://www.wkk.co.jp/foroversea/>
- CDI Netherland. Website: <https://www.wageningenur.nl/en.htm>
- TSUCHIYA Corporation Japan. Website: <http://www.tsuchiya-group.co.jp/english>
- Innovative Technical Solutions. Inc ITSI. Website: <http://www.gilbaneco.com/one-family/>
- Kreditanstalt für Wiederaufbau KfW. Website: <https://www.kfw.de/kfw-de-2.html>

### Local Customers: (Construction Companies, Residential and Commercial building owners)

Not mentioned here due to large number of Customers

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## ***All Plants Contact detail***

### **HARIROD GROUP RMC PLANT 2 KABUL**

Mobile : +93 (0) 797 797 071

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### **HARIROD GROUP RMC PLANT 3 KABUL**

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### **HARIROD GROUP RMC PLANT 4 KABUL**

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### **HARIROD GROUP RMC PLANT 5 KABUL**

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### **HARIROD GROUP RMC PLANT 7 KABUL**

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### **HARIROD GROUP RMC PLANT PARWAN**

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### **HARIROD GROUP ASPHALT PLANT MAZAR**

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