

# INDO SPARK CONSTRUCTION SERVICES



## Limca *Book of Records*

*National Record*

Indo Spark Construction Services, Kolhapur, Maharashtra, headed by Sandeep Ingale, organised the fastest rebar fixing event in which six workers successfully fixed 1,021 TMT bars of 8×100 mm on a concrete cube in 38 min 52 sec from 7.32 pm to 8.11 pm on May 28, 2015. The team of workers included Balaso Tukaram Bidkar, Deepak Dewba Gawkar, Mukesh Madyappa Sutar, Ramesh Basappa Reddi, Parshuram Ningappa Biradar and Sardar Ganpati Desai.

*Vijaya Ghose*  
Editor, Limca Book of Records

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## *Limca Book of Records Awards Winner 2015*

# Services Catalogue



### About Indo Spark Construction Services:

- Specializes in vibration free concrete cutting and fixing rebars & anchors in civil structures
- Based in Kolhapur, Maharashtra
- Over 45+ years of experience
- Led by **Mr. Sandeep Ingale**
- Are dedicated team of professionals
- Expertise in concrete, brick masonry, rock, and underwater structures

### Notable achievement

- Fastest rebar fixing event in May 2015
- Six workers fixed 1,021 TMT bars of 8 X 100 mm on a concrete cube
- Completed in 38 minutes and 52 seconds

### Customer Experience

- Installed over 6000+ no's of foundation bolt for specialized machinery in BARC, Mysuru.
- Installed railway electrification masks on bridges for KEC International.
- Installed transmission tower foundation bolts for BHEL, Patratu (Power Grid Corporation Ltd.)
- Rock anchoring undertaken for many construction projects in and around Pune.
- Successfully completed core cutting & concrete wire sawing projects at different JSW units during shut down.

### Services offered

- Anchor Bolt Fixing
- Bar Fixing
- Concrete Demolition
- Core Cutting
- Diamond Floor Sawing
- Diamond Wall Sawing
- Diamond Wire Sawing
- Hydraulic Concrete Crusher

### Key Highlights and Expertise

- Extensive expertise in cutting and fixing for 30+ years
- Proficiency in concrete drilling and cutting
- Diamond drilling, sawing, and controlled demolition work
- Skilled operators with cutting-edge equipment
- Nationwide services available
- Prompt and accurate execution of contracts
- Commitment to excellence and personalized solutions



### Rebaring Work

Indo Spark Construction Services also specializes in undertaking Dowel Bar Fixing Work for our clients. Our expertise lies in installing dowel bars for extension purposes, utilizing imported hi-tech chemicals to ensure the existing beam and column remain intact without any damage. We have the capability to install dowel bars in both brick masonry and concrete structures. Additionally, we offer our services for both dry and wet surfaces, providing flexibility in various project environments.

In addition to Dowel Bar Fixing, Indo Spark Construction Services offers Anchor Bolt Fixing services to our clients. Our bolt fixing services require meticulous attention to detail and the use of appropriate tools. We ensure that the bolts are securely fixed directly on the top corner pieces, and for minor lateral adjustments, threaded rods are hung from the ceiling and adjusted using brackets provided alongside.

We are a nationwide company and we are looking for queries from all over India. Our key features include:

### Key Features

- Dowel Bar Fixing. [8mm to 32mm]
- Foundation Bolt Fixing
- MS Plate Bolt Fixing
- Tower Foundation Bolt Fixing
- Experience in all types of civil structure
- Wood & Aluminum frame Fixing





### Concrete Breaking /Demolition Work

Indo Spark Construction Services offers concrete breaking and demolition services for various structures. We use specialized machines and equipment to carry out demolitions in a safe and controlled manner, without causing damage to any surrounding property.

Our team of experts have extensive experience in demolishing commercial and residential structures. We use a variety of demolition equipment, including electrical hammer machines, to ensure that the demolition is carried out efficiently and safely.

We offer a wide range of concrete breaking and demolition services, including:

#### Key Features

- Slab demolition
- Beam demolition
- Column demolition
- RCC works demolition
- Brick works demolition
- Wall demolition
- COBA demolition
- Terrace waterproofing demolition

We also offer commercial complex demolition services. For example, we can demolish columns, beams, slabs, chajjas, and other structures within a commercial complex





## Diamond Drilling

Diamond Drilling is the most versatile and efficient method of forming holes and opening in a wide range of hard material from heavy reinforced concrete and natural stone and bricks. At Indo Spark Construction Services we are proud of speed at which we can undertake and complete even the most a complex solve and drilling problem.

## Key Features

- Dust and vibration free
- Flexible power sources
- Light weight Drilling
- High Performance Automated Rigs
- Hole Size from 8mm To 600mm
- New slurry containment and Re-cycling system allows wet drilling in furnished area
- Low noise output
- The most precise method of forming Service penetration
- Fully Trained labour & Operators
- Fully equipped mobile workforce covering the job Area
- No dust due to dry cutting
- Clean & Safe
- Dry drilling when required





Utilizing and pioneering the latest technology, Indo Spark are able to drill holes in a number of applications from new build housing contracts to complex civil engineering and nuclear decommissioning projects.

The versatile range of equipment can be hand held electric rig mounted, self contained trailer or airport rig and is light weight and adaptable allowing even the most demanding projects to be undertaken with speed and precision.

Where appropriate Indo Spark can utilize stitch drilling which is a technique which are free from spalling and require little or no reinstatement

This procedure can be used across the four planes of vertical, horizontal, angled and inverted. No matter you require hole is how big or how long, Indo Spark can drill through it.

### For Example

- Core Cutting work capacity from 12mm to 1000mm
- Core cutting work in RCC Slabs for depth upto 4 meter





## Diamond Floor Sawing

When you need to slice through heavily reinforced concrete or asphalt our range of high output precision equipments gives clean edges and aids in the cutting out of unwanted section aside suited to horizontal surface such as RCC slabs, concrete road, runways, pavements. We Can cut up to a depth of 250 or 40mm and achieve the result in a very short timescale

### Key Features

- High powered 3phase, 32 Amp. motor for floor sawing externally
- Electrically powered equipment for internal use
- Precision cutting of reinforced concrete and asphalt
- Split saws featuring component interchange
- Ability for in accessible areas
- Full range of case studies available demolition cutting for refurbishment
- Removal of defective concrete
- Loop cutting
- Precision compact self propelled saws
- Almost zero vibration
- Dust free
- Fixed price contracts
- Blade types to suit every application
- Fully trained labour & operator team



RCC Slab cutting work

Removing cutouts by chain pulley

With Indo Spark Construction Services floor sawing expertise we can achieve the cutting of internal floor slabs up to 300mm thick quickly and quietly with no fumes in location such as Supermarket, Factories and Hospital, Where speed of operation and appreciation of the sensitive nature of the location is important. Expansion joints can be cut quickly and accurately with our self propelled joint cutting saws.

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## Diamond Wall Sawing

Using the very latest in high cycle electric and hydraulic wall saw technology we can precision cut opening to form doors and windows and remove entire sections of structures in material such as heavily reinforced concrete, brick work and stone in buildings where access for conventional equipment is precluded and cut to depths of 600mm in the most demanding situations.

## Key Features

- Precision cutting (3 phase, Single Phase motor for wall sawing)
- Vibration Free
- Cut up to 600mm depth
- Precise remedial works
- Remote controlled operation for increased safety
- Angle Cutting
- Stair Cutting
- Flush cutting
- Speed & Versatility
- Fume Free
- Full range of case studies available
- Fully trained labours & operators
- Fully equipped mobile work force covering all over India.



→  
RCC foundation  
cutting work

RCC Heavy Bridge Cutting Work



INDO SPARK CONSTRUCTION SERVICES



→  
RCC Wall Cutting work

→  
RCC Wall After Cutting





### Diamond Wire Sawing

Diamond wire sawing using high cycle electric or hydraulic equipments is the fastest and most versatile means of cutting heavily reinforced concrete the wire saw easily handles the thickness sections of all construction material with cutting rates in excess of 1m /hour achievable and the ability to cut circular opening up to 2500mm diameter leaving clean straight and smooth cut surface with no damage to the remaining structure.

When faced with the problem of removing large sections of heavily reinforced concrete wire saw makes work simple. In complex situation where access to large structures such as bridge deck or removal of columns & beams is helpful. When depth & speed of cut article wire sawing provides solution & extensively used by Indo Spark Construction Services.

### Key Features

- Non-Percussive
- 3 phase, 63 Amp. motor
- Smooth cut face
- Unlimited cutting depth
- Horizontal, Vertical and angled cutting of circular opening upto 2500mm diameter
- Quite and Fumless
- Fast and flexible
- Plunge cutting facility allowing blind and rebated opening to be formed
- Safe remote controlled operation
- Full range of case studies available
- Fully Trained labor & operators
- Fully equipped mobile workforce covering the jobs



Cement plant  
foundation  
cutting work



RCC Compound  
wall cutting work

Sugar Factory  
foundation  
cutting work



RCC foundation  
after cutting

RCC Column  
cutting work



## Under Water Wire Sawing Work



Proper Platform



Proper Stand Fixing



Proper Wire Tying



Diamond wire seating on cut out Location



Cutting Started



Cutting going on



Lifting cutout with crane & Shifting to proper location



Pile after cutting



### Hydraulic Splitter

Hydraulic Splitter is one of the safest and most efficient methods of mass concrete, brick work or natural stone. Hydraulic Splitter are placed in pre-drilled holes and expanded to induce controlled Cracking of the material, thus reducing it to manageable sections for removal.

What's more the equipment can be used in confined spaces without risk. Indeed Indo Spark Construction Services have used this technology to remove heavily reinforced concrete structure such as Dam, Bridge and Nuclear power stations where precise controlled system of removal was required.

### Key Features

- Non percussive
- Easily crack the concrete, natural stone
- Low noise
- Easily accesses sensitive and inaccessible areas
- Full range of case studies available
- Full trained labour operators
- Fully equipped mobile work force covering the jobs





## Hand Sawing

Indo Spark Construction Services also offer a full range of specialist sawing alternatives which can use to cut Slab, Brick wall Small structure beam. Hand saw allow square or rectangular opening to formed with no over cutting the corners to a depth of mm across a wide range of material

## Key Features

- No owner cutting on corners (i.e. square edges)
- Cutting depth up to 400mm
- Full trained labour & operators
- Fully equipped mobile work force covering the job

## For Example





### Pull Out Testing

- Pull out test establishes the strength or the resistance of an anchor to withstand a tensile (Pull out) Load.
- Pull out test is carried out for both Mechanical and Chemical anchors and also for rebars.
- Indo Spark has capacity to undertake pull out tests from Dia 8mm to Dia 40mm bar and stud.
- The test unit could be either KN or TON. We have equipment to do a pull out test of up to 75 ton load on site.
- Pull out test is carried out using an hydraulic equipment with provision to hold and exert a tensile load to try and extract the rebar/ stud from its anchored position.
- Pull out test is either done to establish the performance of anchor for a recommended load or to decide on ultimate load value at which the substrate or the bonding of the anchor starts to fail.
- This a pull out test establishes the quality of anchoring and suitability of the base material for a pre determined load.
- Indo Spark uses calibrated gauges and equipment to carry out pull out tests.

### Pull Out Testing Procedure

- Test is conducted on customer site, in the presence of customer/ consultant.
- ISCS have personnel trained in doing Pull out tests and only trained persons are sent for pull out test.
- No of anchors to be tested and the load at which pull out test is to be carried out, is as decided by the customer.
- On completion, a test report with result Data filled in and co-signed both by the customer and the ISCS person carrying out the test is prepared and handed over.

### ISCS Advantage

- Trained Personnel
- Calibrated equipment
- NABL calibration certified dial gauges
- Tests on site at customer Location
- Establishes the strength of anchor at a particular load
- Establishes the structural strength of
- Base material or the anchoring system



Design App : Link : <http://www.indospark.co.in/#/app/home>

Choose an operation Anchor/Rebar Designer

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**INDO SPARK CONSTRUCTION SERVICES**

This app helps you select ICFS chemical anchor, capture and calculate your concrete services provide by ICFS

**Features**

**Anchor Design** : Selection of ICFS chemical anchor, volume /quantity of ICFS chemical cartridges required. You can select the desired configuration, loads and concrete dimensions for fixing the anchor (s). Based on these inputs, the app suggests size of the ICFS chemical anchor, required depth of hole in concrete, volume of ICFS chemical required and quantity of ICFS chemical anchor required and quantity of ICFS chemical anchor suggested are based on design load, spacing and edge distance factors.

**Design Resistance/Chemical Consumption** : Selection of ICFS chemical anchors in special cases involving non-load bearing layers. You can further refine selection of ICFS chemical anchors suggested in Anchor design above if Non-load bearing layers are involved while fixing.

**Concrete Cutting** : ICFS Concrete cutting area/volume Calculator. You can select types of structures and their dimensions to calculate concrete cutting area and volume .

Information from all above can be exported in PDF format. Use this to communicate your requirements to ICFS. ICFS will get back to you with a quote as soon as possible.



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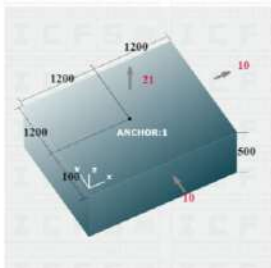
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**ICFS ANCHOR DESIGN**



All loads specified are per-anchor basis assuming equal distribution of load amongst the anchors.

Resultant Applied Loads	
Tensile Load	21.00 kN (2.14 ton)
Shear Load	14.14 kN (1.44 ton)

**Anchor Design Common Parameters**

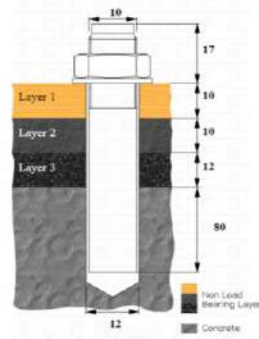
Product	Vinylester Styrene free resin [ CM 350 VESF ]
Rebar/Stud	5.8 Grade Studding
Rebar/Stud Diameter	12 mm
Hole Diameter	14 mm
Depth	120 mm
Design Resistance	29.2 kN (2.98 ton)
Recommended Load	20.8 kN (2.12 ton)
Per hole Chemical Volume	12.25 ml
Number of holes in 350(ml) ICFS Chemical	26.13
Chemical Cartridges required for this design (1 hole)	1

**Anchor-Specific Parameters Anchor 1**

Spacing Factor	1.00
Edge Distance Tensile Factor	0.80
Edge Distance Shear Factor	0.72
Design Resistance (Tensile)	23.36 kN (2.38 ton)
Design Resistance (Shear)	21.02 kN (2.14 ton)

1 of 1

**ICFS ANCHOR LENGTH/DESIGN RESISTANCE AND CONSUMPTION**



**Anchor Parameters**

Product	Pure Epoxy [ CM 400 PE ]
Rebar/Stud	5.8 Grade Studding
Rebar/Stud Diameter	10 mm
Hole Diameter	12 mm
Minimum Anchor Length	129 mm
Aggregate Nut, Washer and Head Height	17 mm
Layer 1	10 mm
Layer 2	10 mm
Layer 3	12 mm
Concrete Depth	80 mm
Design Resistance	18.9 kN (1.93 ton)
Recommended Load	13.5 kN (1.38 ton)
Per Hole Volume	6.91 ml
Number of holes in 400 ml ICFS Cartridge	53.6

1 of 1

**CONCRETE SERVICES DATA SHEET**

**Aggregate**

Area	0.09 m <sup>2</sup>
Volume	0.27 m <sup>3</sup>
Weight	675 kg



**ICFS Beam Cut 1**

Area	0.09 m <sup>2</sup>
Volume	0.27 m <sup>3</sup>
Weight	675 kg

1 of 1



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## Our Clientele



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