



REGENESIS INDUSTRIES PVT.LTD.



About Us

Regenesi Industries Private Limited (RIPL) was founded by **Mr. Indrasena Reddy Aileni** in the year 1999 as M/s. Vijaya Explosives Pvt. Ltd., which engaged in Manufacturing of Industrial Explosives at Bommalaramaram (V&M), Yadadri District, State of Telangana, India. In 2002, at the same location Mr. Aileni started the Production of Explosive & Initiating Systems under the company name; M/s. A.P. Explo Chem Private Limited.

In 2008, **RIPL** acquired M/s. Techno Blast India Pvt. Ltd, which was a sister concern of Bharat Explosives Limited located at Chandrapur, State of Maharashtra and Raigarh, State of Chhattisgarh. In the year 2010, these companies merged to one company as **M/s. Regenesi Industries Private Limited**.

Regenesi Industries Pvt. Ltd. manufactures a wide range of industrial explosives and accessories/initiators which include **Cartridge/Packaged Explosives** such as Slurry & Emulsion, **Bulk Emulsion Explosives (SME)**, All types of Initiating Systems such as **Electric Detonators, Special Ordinary Detonators, Non-Electric Detonators, Detonating Fuse/Cord, PETN based Cast Boosters & PETN**. We are also providing Job Work services at global level for Metal Cladding and Hardening using our **RIPL** products.

RIPL has developed all the products with new generation modern techniques and always had a view of **QUALITY, SAFETY & SERVICES**. The company has highly expertised personnel as well as experienced mining engineers, providing technical services to our customers of Government & Private sector Industries like in; surface and underground mining, quarrying, tunneling applications, and Infrastructure, Cements, Stone Crushers.

RIPL is an **ISO 9001:2015 Certified Company**, using all modern techniques to manufacture and world-class packaging equipment from USA, China & India for our Products. A fleet of nearly 150 heavy vehicles includes Trucks, Tankers & Trailers owned by **RIPL** as part of Logistics, which serve exclusively for transfer of Explosives and raw materials across India.

Regenesi Industries Private Limited has entered agreement to manufacture Detonators using “**A Process-Safe Detonator**” (NHN) Technology from **Vikram Sarabhai Space Centre (VSSC)**, which is the lead Centre of **Indian Space Research Organisation (ISRO)** under the **Department of Space (DOS)**, Government of India.



DETONATORS - (INDRA DETONATORS)

The Detonators consist of an Aluminum shell filled with required dosage of PETN as base charge and mixer of Nickel Hydrazine Nitrate and Aluminum powder (ANHN mixture) as priming charge. ANHN mixture is sensitive to flame while PETN is sensitive to the shock wave generated by ANHN mixture. In delay detonators a pyrotechnic element is placed above the ANHN mixture, which provides the required delay.



PRODUCT SPECIFICATIONS

PRODUCT	INDRA SOD	INDRA ED	INDRA SDD (MSDD)	INDRA LDD (HSDD)
Construction	Aluminum Shell	Aluminum Shell	Aluminum Shell	Aluminum Shell
Strength	No.6/8	No. 6/8	No.8	No.8
Ignition/ initiation	Safety Fuse	Electric	Electric	Electric
Delay interval	Plain	Instantaneous	25-100 ms ±10	250-500 ms ±100
Shell Length (mm)	40-42	42-45	57-80	57-80
Delay Nos.	-	-	0-20	0-10
No Fire Current	-	180 ma for 5 Minutes	180 ma for 5 Minutes	180 ma for 5 Minutes
Series fire Current (Min.)	-	1.2 A for 4 ms	1.2 A for 4 ms	1.2 A for 4 ms
Fuse head Resistance	-	1.6 - 2.4 ohms	1.6 - 2.4 ohms	1.6 - 2.4 ohms
Lead Wire Resistance (GI/Copper)	-	0.75/0.1 ohm/m	0.75/0.1 ohm/m	0.75/0.1 ohm/m
Water Resistance	-	Excellent	Excellent	Excellent
Specific length available on request	-	1.5 / 1.8 / 2.0 / 3.0 m	3 / 5 m	3 / 5 m
Wire Color	-	As Required	As Required	As Required
Packing	10000 Nos.	1000 / 1500 Nos.	1000 / 1500 Nos.	600 / 1000 Nos.

*THESE SPECIFICATION CAN BE CHANGED WITHOUT ANY NOTICE / INTIMATION.

APPLICATIONS

Application fired with safety fuse in quarry, well sinking and other areas used in quarry, well sinking metal/mineral mines and other Non-gassy areas for use in non - coal mines, drives, cross cuts, shaft sinking, tunneling etc.

TRANSPORT

Explosives Rules, 2008: Class - 6, Division – 3

UN Classification: Class - 1.1B, UN No. 0029/30, Stowage Cat II Type “C”

PERMITTED DETONATORS



PRODUCT SPECIFICATIONS

PRODUCT	INDRA COPPER ELECTRIC DETONATOR (PERMITTED ELECTRIC DETONATOR)	INDRA COPPER ELECTRIC DELAY DETONATOR (PERMITTED DELAY ELECTRIC DETONATOR)
Construction	Copper coated steel shell	Copper coated steel shell
Strength	No. 8	No.8
Ignition/ initiation	Electric	Electric
Delay interval	Instantaneous	0 / 25 / 50 / 75 / 100 / 125 / 150 ms
Shell Length (mm)	42	42 - 62
Delay Nos.	-	0 - 6
No Fire Current	180 ma for 5 Minutes	180 ma for 5 Minutes
Series fire Current (Min.)	1.2 A for 4 ms	1.2 A for 4 ms
Fuse head Resistance	1.6 - 2.4 ohms	1.6 - 2.4 ohms
Lead Wire Resistance (GI/Copper)	0.75/0.1 ohm/m	0.75/0.1 ohm/m
Water Resistance	Excellent	Excellent
Specific length available on request	1.5 / 1.8 / 2.0 / 3.0 m	3 / 5 m
Wire Color	As Required	As Required

*THESE SPECIFICATION CAN BE CHANGED WITHOUT ANY NOTICE/INTIMATION.

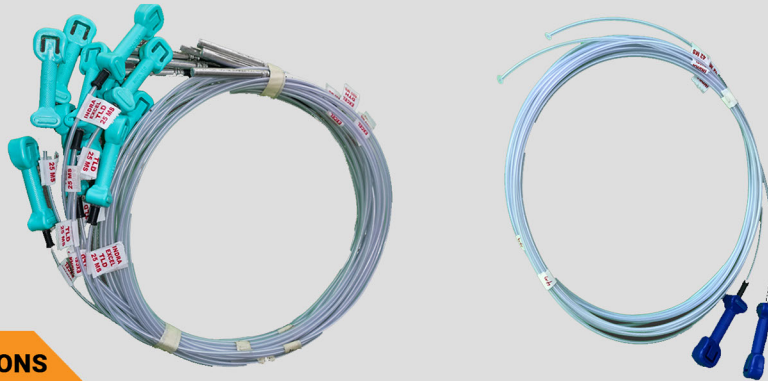
TRANSPORT

Explosives Rules, 2008: Class - 6, Division - 3

UN Classification : Class - 1.1B, UN No. 0030, Stowage Cat II Type "C"

NON-ELECTRIC DETONATOR- (INDRA EXCEL)

NONEL consists of a shock tube with delay detonator, the inner tube is filled with an explosive composition (PETN+Aluminum), end of the tube is hot sealed to ensure waterproof and the other end is crimped to the detonator. NONEL used for Surface blasting, quarrying & trenching and under water blasting. The unique design of bunch connector facilities interfacing with a detonator.



PRODUCT SPECIFICATIONS

PRODUCT	INDRA EXCEL TLD	INDRA EXCEL DTH	INDRA EXCEL DUAL DET. (TLD+DTH)
Detonator strength	No. 8	No.8	No.8
Delay timings (in ms)	17 / 25 / 42 / 67 / 100	200 / 250 / 300 / 350 / 400 / 450 / 475 / 500	Any combination of TLD & DTH
Length of shock tube	2 meter to 50 meters	2 meter to 50 meters	2 meter to 50 meters
VOD	2000 ± 200 m/s	2000 ± 200 m/s	2000 ± 200 m/s
Tensile Strength	20 KGs	20 KGs	20 KGs
Water Resistance	Excellent	Excellent	Excellent

*SPECIFIC DELAY PERIOD ALSO AVAILABLE AS PER REQUEST.

*THESE SPECIFICATION CAN BE CHANGED WITHOUT ANY NOTICE / INTIMATION.

APPLICATIONS

The product finds wide application in the open cast blasting, quarrying, tunneling, underwater blasting, underground mine applications, highly conducting metallic mines trenching excavations, controlled and cautious blasting.

TRANSPORT

Explosives Rules, 2008: Class - 6, Division - 3

UN Classification :Class/Div. 1 - 1.1B, UN No. 0029, Stowage Cat II Type "C"

CORD RELAY - (INDRA CORD RELAY)

INDRA Cord Relay consists of two delay devices hosed in a plastic component. Two holes are provided at either end for threading the detonating cord. All nominal of Cord Relay are in colored plastic components with nominal time indicated in different colors. Cord Relays can be used for providing various delay initiation patterns such as Row delay, Diagonal pattern, V-Pattern etc. INDRA Cord relay are bidirectional and can be used in the blast for safe, reliable. Simple, easy, Safe from static discharge and stray current.



PRODUCT SPECIFICATIONS

PRODUCT	INDRA CORD RELAY (Bi-directional Cord Relays)
Nominal Delay Time	17ms / 25ms / 42ms / 50ms
Color Component	YELLOW / GREEN / BLUE / RED
Compatibility	8gms / 10gms / meter Detonation Cord
Packing	400 Nos./ Case
Gross Weight	15Kgs

*THESE SPECIFICATION CAN BE CHANGED WITHOUT ANY NOTICE / INTIMATION.

APPLICATIONS

Cord Relays can be used for providing various delay initiation patterns such as Row delay, Diagonal pattern, V-Pattern etc. Where controlled blasting is required, Cord Relays can be used in such a manner that only one hole blasts at a time thus keeping the maximum charge per delay.

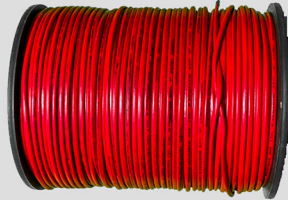
TRANSPORT

Explosives Rules, 2008: Class - 6, Division - 3

UN Classification: Class/Div. 1 - 1.1B, UN No. 0029, Stowage Cat II Type "C"

DETONATING FUSE - (AEC V-CORD)

Detonating Cord, also known as Detonating Fuse, is a flexible cord containing an explosive core of Penta Erythritol Tetra Nitrate (PETN) encapsulated using polymeric tape, natural or synthetic yarns and over-extruded with PVC to provide abrasion resistance and water-proofness.



PRODUCT SPECIFICATIONS

PRODUCT	AEC V-CORD 5	AEC V-CORD 7.5	AEC V-CORD 10	AEC V-CORD 12	AEC V-CORD 20	AEC V-CORD 40	AEC V-CORD 80
Core load (gm/mt)	5gm	7.5gm	10gm	12gm	20gm	40gm	80gm
Cord Dia (mm)	3.5 - 3.7	4.1 - 4.3	4.5 - 4.8	4.9 - 5.1	6.0 - 7.0	7.5 - 8.5	10.5 - 11.5
Weight of DF (gm/mt)	13 - 15	18 - 20	20 - 22	22 - 24	38 - 42	70 - 80	140 - 150
VOD (m/s)	5700 ± 300	6300 ± 300	6500 ± 300	6800 ± 200	6800 ± 200	6900 ± 200	6900 ± 200
Breaking Load (kg)	40 - 45	65 - 70	70 - 75	85 - 90	85 - 90	95+	95+
Side brisance (mm)	5	7	10	10	12	15	15
Abrasion	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Under Water Pressure	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Color of PVC coating	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Packing (spool x mt)	4x500	4x375	4x375	4x250	4x150	4x100	2x75

*THESE SPECIFICATION CAN BE CHANGED WITHOUT ANY NOTICE / INTIMATION.

APPLICATIONS

Detonating Cord is used as down lines (in-hole) and as surface trunk lines. They reliably transmit detonation through recommended type of knots. The main line and branch line should preferably be at right angles in order to prevent cutoffs due to high brisance generated upon detonation.

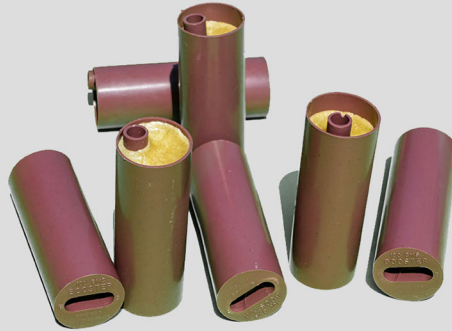
TRANSPORT

Explosives Rules, 2008: Class - 6, Division - 3

UN Classification :Class - 1.1.D, UN No. 0065, STOWAGE CAT II TYPE "1"

CAST BOOSTER - AEC (CAP SENSITIVE)

AEC Cast Booster, which is a mix of PETN and TNT. The cast Booster plastic shell is well designed with two holes to accommodate Detonator as well as Detonating cord in it.



PRODUCT SPECIFICATIONS

PRODUCT CHARACTERISTICS	VALUES
Unit Weight (gms)	100 / 150 / 200 / 250 / 400
Density	1.55 ± 0.05 gm /cc
Velocity	7800 m/sec ± 200
Shock energy	237 calories/gm
Detonation Pressure	240 kilo bars
Water resistance	Excellent
Box Weight	25 Kg (Net Weight)

APPLICATIONS

Pentolite booster can be used for effective initiating cap-sensitive charge in borehole, at any predetermined point in a column of explosive charge.

TRANSPORT

Explosives Rules, 2008: Class - 3, Division - 2

UN Classification : Class/Div. 1 - 1.1D, UN No. 0042, Stowage Cat I

REGENESIS PACKAGED EXPLOSIVES

EMULSION SMALL DIAMETER CARTRIDGE- (INDRA SUPER)



Emulsion explosives (small diameter non permitted cartridges) are the new generation of the explosives characterized with high velocity of detonation and optimum strength. It is the mixture of Oxidised blend and Fuel blend which also contains DG 6 as well as Aluminum and AN doping, which get emulsified.



PRODUCT SPECIFICATIONS

Product	INDRA SUPER
Diameter (mm)	25 / 32 / 40 / 50 / 60 / 65
Density gm/cc	1.20 ± 0.05
Strength AWS AL/GR	1100
V.O.D (m/s)	4500 ± 200
Gap Sensitivity	<50mm
Shelf Life	12 Months
Sensitive	Sensitive to No. 6 Detonator and Cord
Box Weight (NET WT.)	25 KG

*THESE SPECIFICATION CAN BE CHANGED WITHOUT ANY NOTICE / INTIMATION.

APPLICATIONS

Emulsion is a high-powered explosive for use in general quarries, metallic, ferrous mines, tunneling, excavation, well-sinking blasting. It is sensitive to a number 6 detonators.

TRANSPORT

Explosives Rules, 2008: Class - 2

UN Classification :: Class - 1.1D, UN No. 0241, Stowage Cat II Type "B"

REGENESIS PACKAGED EXPLOSIVES

SLURRY LARGE DIAMETER CARTRIDGE

Slurry explosives mainly consist of an oxidizer, a fuel and a sensitizer dispersed in a thickened aqueous medium. The thickener in aqueous medium is cross-linked to form an effective gel matrix to keep the ingredients from segregation and to build some water



PRODUCT SPECIFICATIONS

PRODUCT	VEEJAY COLUMN	VEEJAY POWER	VEEJAY PRIME	VEEJAY BLAST	AEC GEL -1	AEC POWER	AEC GEL - C	AEC BOOST
Diameter (mm)	83 / 125 / 200	83 / 125 / 200	83 / 125 / 200	83 / 125 / 200	83 / 125 / 200	83 / 125 / 200	83 / 125 / 200	83 / 125 / 200
VOD (m/s)	4000 ± 500	4000 ± 500	4000 ± 500	4000 ± 500	4000 ± 500	4000 ± 500	4000 ± 500	4000 ± 500
Strength AWS cal/gr	1100	1100	1100	1100	1100	1100	1100	1100
Density gm/cc	1.15 ± 0.05	1.15 ± 0.05	1.15 ± 0.05	1.15 ± 0.05	1.15 ± 0.05	1.15 ± 0.05	1.15 ± 0.05	1.15 ± 0.05
Water Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Sensitivity	Non-Cap Sensitivity	Non-Cap Sensitivity	Cap Sensitivity	Cap Sensitivity	Non-Cap Sensitivity	Non-Cap Sensitivity	Cap Sensitivity	Cap Sensitivity
Box Weight (NET WT.)	25 KG	25 KG	25 KG	25 KG	25 KG	25 KG	25 KG	25 KG

*THESE SPECIFICATION CAN BE CHANGED WITHOUT ANY NOTICE / INTIMATION.

APPLICATIONS

Slurry Explosives combines both sensitivity and high energy. Its density makes it ideal for use in wet boreholes, and makes it a viable option for the use as a bottom charge for medium-hard rock and for column charges in wet boreholes.

TRANSPORT

Explosives Rules, 2008: Class - 2

UN Classification :: Class - 1.1D, UN No. 0241, Stowage Cat II Type "B"

REGENESIS EXPLOSIVES

PETN

Pentaerythritol Tetranitrate (PETN) or Penthrite/ Nitropenta is a standard explosive compound obtained by nitration of PentaErythritol with Concentrated Nitric Acid. It is in the form of white crystalline powder insoluble in water and highly soluble in Acetone.



PRODUCT SPECIFICATIONS

PRODUCT CHARACTERISTICS	VALUES
Melting point	139° C to 142° C
Nitrogen Content	17.5 % Maximum
Stability by able Heat Test	76.6° C for 10 minutes minimum
Flow rate (for 500gm)	200 - 250 Seconds (5mm Bore Funnel)
Bulk Density (gm/cc)	0.90 ±0.05
Moisture (for transportation)	25%
Moisture (for Use)	0.1%
Insoluble in Acetone	0.2%
Acidity as HNO ₃	0.005 %
Alkalinity as Na ₂ CO ₃	0.005 %
Ash Content	0.05 %
Sieve Size (36 BSS)	70 - 80%
Sieve Size (100 BSS)	4%
Crystal shape	Rhombic
Product Weight	11.5 x 2 = 23KG (Box Weight ~ 25 KG)

APPLICATIONS

Penthrite (PETN) is used in the manufacture of detonating fuse, detonators and plastic explosives. If phlegmatized with a small amount of wax and pressed, it may be used to produce boosters and fillings for smaller caliber projectiles. PETN can also be incorporated into gelatinous, industrial explosives.

TRANSPORT

Explosives Rules, 2008: Class -3 Division - 2

UN Classification :: Class - 1.1D, UN No. 0151, Stowage Cat II Type "B"



REGENESIS INDUSTRIES PVT.LTD

Factories at:

Sy. No. 50, Bommalaramaram (V&M), Yadadri Bhuvanagiri Dist., Telangana State, 508126 India.

Plot No. E-88, M.I.D.C., Ghugus Road, Chandrapur Dist., Maharashtra State, 442406 India.

Khasra No. 607/2, Midmida Village, Pusour Tehsil, Raigarh Dist., Chhattisgarh State, 496001 India.

Sy. No. 369 & 370 Musthyala Village, Kamanpur Mandal, Peddapalli Dist., 505001 India.

Registered Office : Plot No. 29/B, P&T Colony, Trimulgherry, Secunderabad, Hyderabad, TS - 500015 India.

PHONE : 040-2774 1258 / 9

FAX : 040-2774 7599

E-MAIL : info@regenesisindustries.co.in, exports@regenesisindustries.co.in

WEBSITE : www.regenesisindustries.co.in