SANTOSH ENGINEERING WORKS

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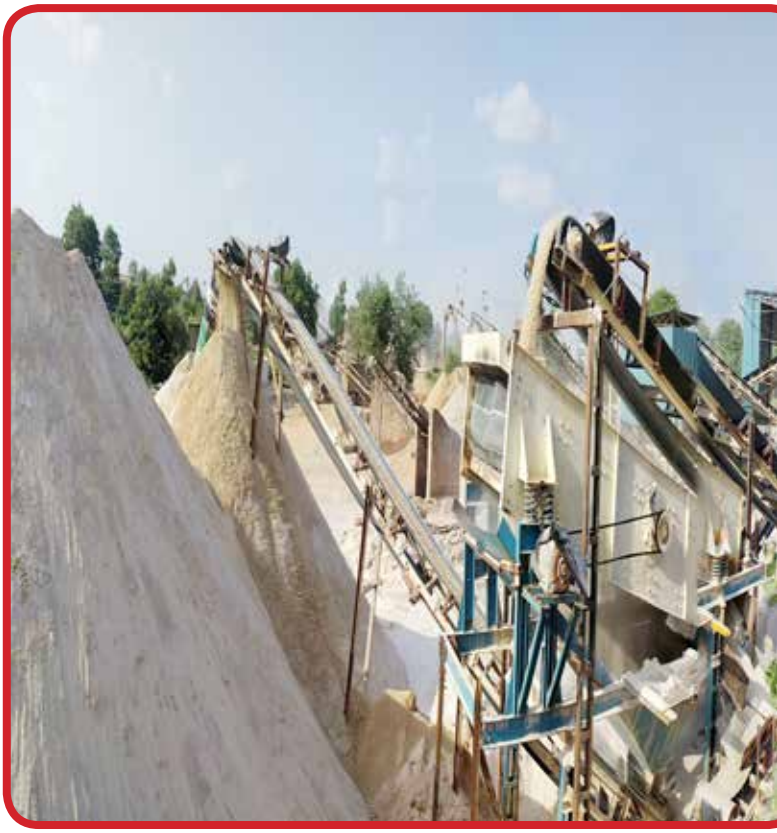
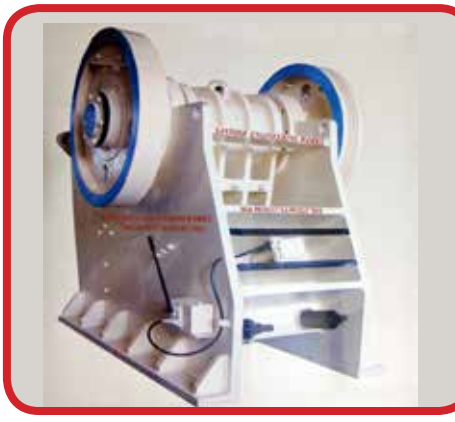




High Quality Stone Crushing Plants, Equipments And Spares

SANTOSH ENGINEERING WORKS(SEW) is in the services of people around the country manufacturing high quality stone crushing plants and equipment and its spares to the entire satisfaction of its clients. SANTOSH ENGINEERING WORKS(SEW) Manufacture jaw Crusher (Primary Crusher), Granulator (secondary crusher), Roll crusher , Belt conveyors , Vibrating screen, Vibrating Grizzly Feeder, Rotopactor, Sand Classifier in different sizes and designs according to the specifics requirements of customers.

SANTOSH ENGINEERING WORKS(SEW) is established by Santosh Kumar having 22 years of experience and is having wide exposure of this industry. The company is established since 1994 in Faridabad(Haryana) India.

SANTOSH ENGINEERING WORKS(SEW) manufacturing the stone crushing plants of production from 20TPH to 200TPH according to the requirement of customer.

Our Company has been the pioneer in the manufacture of stone crushing plants.

Our safe and reliable SEW Stone Crusher with exclusive features will increase efficiency and add to your profitability, as down time will be considerably low. From time to time many improvements have been upgraded to ensure the best possible performance among all the crusher of the time.

The company always supplies replacement parts, as well as regular services to its customer. crushing plants in mostly states of India. SEW stone crusher can be used in crushing of wide range of material such as BAUXITE, CARBORUNDUM, (Silicon Carbide), GRANITE, CALCUIM, IRON ORE, MANGANESE, RIVER GRAVEL, LIME STONE, BLACK ROCK, COAL, COKE, QUARTZ.

Research and Development

We understand the fact that to survive the stiff market competition, it is imperative for us to constantly upgrade the technology used by us for manufacturing our material handling equipment. To help us in this, we have established a modern R&D unit within our organization, which is equipped with the latest technology based instruments and equipment. These help our R&D professionals in carrying out various research projects in an effective and competitive manner.

Our organization has appointed a highly knowledgeable and experienced team of R&D professionals, who keep themselves abreast with the latest technological developments in the industry. These experts are constantly working at improving the performance and quality of our material handling equipment, which help us in garnering high level of client satisfaction.

Products :-

1. Double Toggle Jaw Crusher (Primary Jaw Machine)
2. Single Toggle Jaw Crusher(Primary Jaw Machine)
3. Granulator Double & Single Jaw Crusher (Secondary jaw Machine)
4. Vibrating Screen
5. Vibrating Grizzly Feeder
6. Roll Crusher (Dust Machine Bearing Type)
7. Rotopactor (Horizontal Shaft Impactor)
8. Belt Conveyor
9. Steel Hopper
10. Sand Classifier

Definition of Jaw Crusher Machine

A machine for crushing rock or ore between two heavy steel jaw.

The crusher is a machine that is designed such that to reduce the size of large rocks into smaller rocks like gravels. It is not only for that, but it is also used for recycling of the waste materials. Crusher is a multi-dimensional machine. Crusher has the ability of changing the form of material. In rock ores, crusher is used for the reduction in size or for making pieces of a solid mix i.e., composed of different raw materials and these pieces are used for the composition study of different raw materials

Santosh Engineering Works Manufacture In Two Types Of Crusher

- **Double Toggle Jaw Crusher**
- **Single Toggle Jaw Crusher**

1. Double Toggle Jaw Crusher (Primary Jaw Machine)

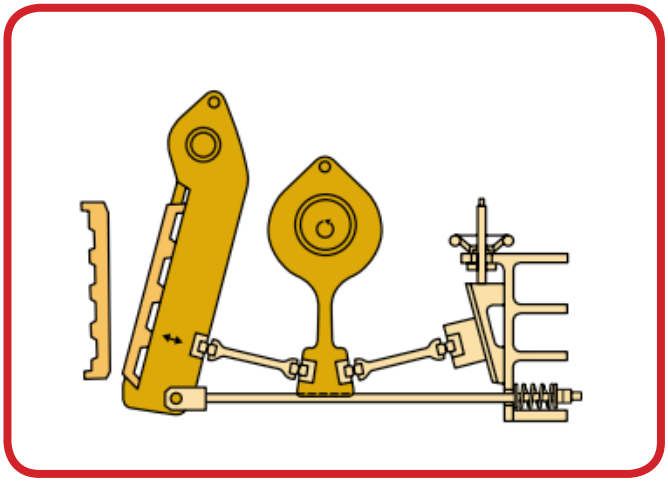
☞ Working Principle

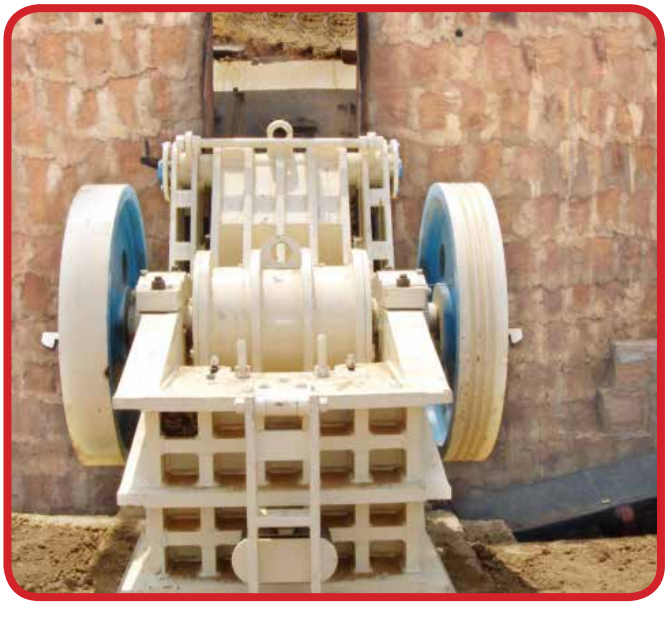
The pulping of fed material is achieved by a set of jaw plates made of MN steel. One of the jaw plates is fixed while the other is moving(swing jaw plates). The swing plate moves by the thrust of toggle plate which takes force by pitman, rotation of which is created through the eccentric shaft that rotates eccentrically by the flywheel which is driven by the V belt connected to electric motor or diesel engine , as prime force.

Feature Of Double Toggle Jaw Crusher

- **BODY** is fabricated with tested quality M.S. plates which are reinforced by the M.S. Plates working as horizontal members and vertical members to the body .
- Body of **LEVER** is fabricated with M.S. plates or is C.I. casted material. The lever consists M.S. pipe , M.S. pin, bushes etc.
- **PITMAN** is the pitman assembly has the main body of mild steel and M.S pipe. The pipe holds one eccentric shaft, two bearings and toggle bearings are inserted at the bottom of the pitman body to house the toggle plates.

- **JAW PLATES** are of MN steel containing 12 to 14 % MN. conforming to I.S.27B grade II.
- **TOGGLE BEARINGS** are either of cast MN steel or fabricated of high quality steel.
- **FLYWHEEL** are two in number where one flywheels is used for balancing while another is prime mover, which rotates by the eccentric shaft. The main power used for rotation is electric power of diesel engine
- **TOGGLE BLOCK AND VIZ BLOCK** both parts are of C.I. material , properly machined and provided in the rear portion of jaw body. The function of toggle block and viz block is to control thrust produced in the pitman and to adjust/set the stock of the swing jaw plate.
- **LUBRICATION** the provision for greasing the bearings and pin etc. is provided, however ,self aligning double roller spherical bearings and cylindrical roller bearings are fitted providing grease holding space. The loss of grease should be compensated by the repeat greasing after every 10 days





2. Single Toggle Jaw Crusher (Primary Jaw Machine)

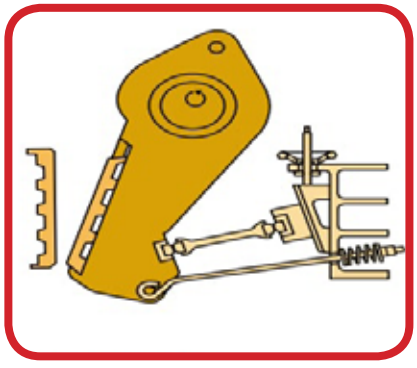
Working Principle

Now, single jaw crushers include one toggle, that goes from the bottom of the swinging jaw right up to a certain point behind the jaw crusher. Compared to double toggle jaw crushers, single ones include fewer shafts and bearings. The eccentric of a single jaw crusher is located at the top of the swinging jaw. The position of the eccentric provides the jaw with an advantage. The good thing about this position is that, the jaw can perform two motions at the same time. The single jaw crusher has the same swinging door as the double one, with one difference, it can move up and down from the eccentric as well.

Feature Of Double Toggle Jaw Crusher

- The body of Single toggle grease lubricant type Jaw Crusher is made from tested MS plates with welded construction duly reinforced.
- The swinging lever (pitman) is fabricated out of MS plates with high tensile strength and it is annealed by heat treatment process and then it is precision machined for smooth crushing stroke. the crankshaft is made of forged steel and fitted in heavy duty spherical double roller bearings, which ensures smooth operation. the two bearings are fitted on both sides of the crankshaft and two in swinging lever which are well sealed against possible entry of dust.
- The crushing Jaw plates are made of high tensile Manganese Steel. One jaw plate is fixed and other jaw plate is fitted on swinging lever. the setting of jaw plate is carried
- out by simple adjustment with tie rod at the bottom of the swing jaw stock. the setting is altered and adjustment can be made without stopping the machine.

- Heavy duty cast iron flywheels are fitted on both the ends of crank shaft. These flywheels are machined all a over, counter weight fitted and balanced to ensure steady crushing force.
- The jaw crusher shall be complete with side plates, Toggle plates, Toggle bearings, Toggle block, Wage block and foundation bolts etc.


3. Granulator(Secondary jaw Machine)

Santosh engineering Works(SEW) manufacture different size of granulator according to the requirement of its customers. These crushers are also manufacture in both double and single toggle.

The granulator functions similar to jaw crusher, the only differences that the bigger boulders are first crushed in jaw crusher and granulator is used as secondary crusher for the crushed material from jaw crusher. Somtime granulator is used as primary crusher, if boulders are smaller.




Capacity And Power Chart For Jaw crusher **(Primary jaw Machine)**

MODEL	FEED OPENINIG SIZE (INCH)	FEED-ING SIZE (INCH)	CAPACITY IN TONS/HOUR WITH CLOSED SIDE SETTINGS													RPM	MOTOR RE-QUIRED (H.P)
			40 MM	50 MM	63 MM	75 MM	80 MM	90 MM	100 MM	125 MM	150 MM	175 MM	200 MM	225 MM	250 MM		
JC-12X7	12"X7"	5"	12	18	20											325-350	20
JC-16X9/10	16"X9"/10"	7/8"	14	20	24											325-350	25
JC-20X10/12	20"X10"/12"	8/10"	16	22	26	30										325-350	30
JC-24X12/15	24"X12"/15"	10/12"	20	26	30	34										300-325	40
JC-30X15	30"X15"	12"	24	36	40	50										300-325	50
JC-30X20	30"X20"	18"	24	36	40	50	60									300-325	50
JC-32X20/22	32"X20"/22"	18/20"	30	40	50	60	70	80	90	100	110					280-300	60
JC-36X24	36"X24"	22"							100	120	140					260-280	75-100
JC-36X30	36"X30"	27"								125	145	150	160			260-280	100-125
JC-36X32	36"X32"	29"								135	150	160	170			260-280	100-125
JC--42X30	42"X30"	27"								150	180	190	200			240-260	125-150
JC-42X36	42"X36"	32"								150	180	190	200			240-260	125-150
JC-48X36	48"X36"	32"								180	210	230	250	275	300	240-260	150-175

Capacity And Power Chart For Granulator **(Secondary Jaw Machine)**

MODEL	FEED OPENINIG SIZE (INCH)	FEEDING SIZE (INCH)	CAPACITY IN TONS/ HOUR WITH SIDE SETTINGS								
			40 MM	50 MM	63 MM	75 MM	100 MM	125 MM	150	RPM	MOTOR RE-QUIRED
JC-24X6	24"X6"	3"-5"	15	20	25					325-350	25-30
JC-30X6	30"X6"	3"-5"	18	22	26					325-350	30-40
JC-36X6	36"X6"	3"-5"	20	24	28					325-350	40-50
JC-36X8	36"X8	4"-6"	25	30	35	35-40				325-350	40-50
JC-42X6	42"X6"	3"-5"	30	35	38					325-350	50-60
JC-42X9	42"X9"	5"-7"	35-40	40-45	45-50	40-45				325-350	50-60
JC-48X6	48"X6"	3"-5"	35-40	40-45	45-50					300-325	60-75
JC-48X9	48"X9"	5"-7"	45-50	50-55	55-60					300-325	75-100
JC-48X10/12	48"X10"/12"	6"-8"/10"	50-60	65-70	70-75	75-80	80-85	85-90	90-95	275-300	75-100
JC-48X15	48"X15	12"	60-70	70-75	75-80	80-85	85-90	90-95	95-100	275-300	75-100

4. Vibrating Screen

Santosh Engineering Works(SEW) are manufacturing vibrating screens in different models having single, double and triple etc. depending on the requirement of customers. The screens are heavy duty type working on the principle of circular motion and design for longer life maintenance free service.

Feature Of Vibrating Screen

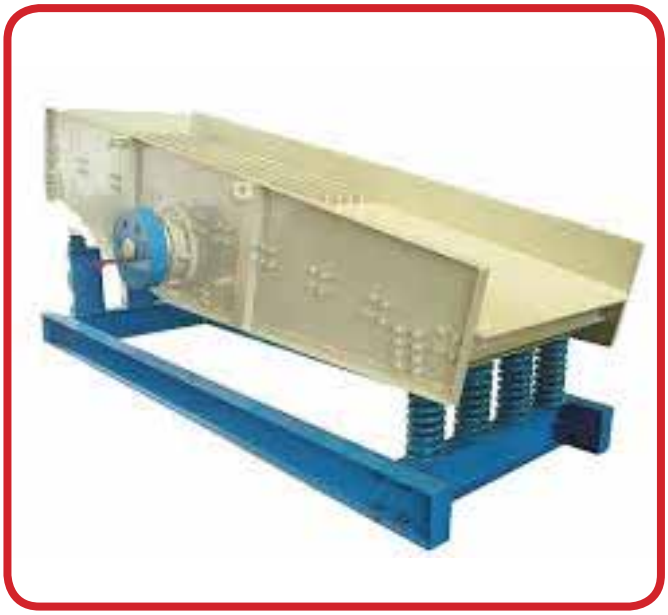
- The mainframe fabricated from Ms plate, angles and pipe and is welled construction with feed and discharged hoods as integral parts.
- Screen plates are a drilled of perforated plates of appropriate size for proper separation of desired fraction. The screen plate is bolted to cross members connecting to screen side plate with necessary lock washer or U clamps.
- vibrator assembly comprises of Shaft and unbalancing weights, driven, V Pulley bearing, bearing housing and Central pipe casing . the shaft is supporting is heavy duty bearing. The bearings are totally enclosed grease lubricated. The vibrator body is fabricated from pipe with two end housing and bolted plates. The housing is bored to accommodate bearing .The shaft is housed in the assembly with covers. The bolting plate is fixed in the frame.
- complete screen frame is supported by four sets of compression type coil springs. These spring supports keep vibration transmission to support structure to minimum.

Capacity And Power Chart For **Vibrating Screen**

NUMBER OF DECKS	MODEL	BASKET LENGHT (FEET)	BASKET WIDTH (FEET)	SCREENING AREA DECK (SQ. FEET)	CAPACITY (TPH)	RPM	MOTOR RE-QUIRED
1	VS-8X4	8	4	32	15-20	850-1000	7-5
	VS-10X4	10	4	40	20-25	850-1000	10
	VS-12X5	12	5	60	30-35	850-1000	15
	VS-14X5	14	5	70	35-40	850-1000	15
	VS-16X5	16	5	80	40-45	850-1000	20
	VS-18X5	18	5	90	45-50	850-1000	20
	VS-20X5	20	5	100	50-60	850-1000	30
	VS-18X6	18	6	108	60-70	850-1000	30
	VS-20X6	20	6	120	70-80	850-1000	40
2	VS-8X4	8	4	32	15-20	850-1000	7.5
	VS-8X4	10	4	40	20-25	850-1000	10
	VS-12X5	12	5	60	25-30	850-1000	15
	VS-14X5	14	5	70	30-35	850-1000	20
	VS-16X5	16	5	80	35-40	850-1000	20
	VS-18X5	18	5	90	40-45	850-1000	20
	VS-20X5	20	5	100	50-60	850-1000	30
	VS-18X6	18	6	108	60-70	850-1000	30
	VS-20X6	20	6	120	70-80	850-1000	40
3	VS--12X5	12	5	60	20-30	850-1000	15
	VS-14X5	14	5	70	30-40	850-1000	15
	VS-16X5	16	5	80	40-50	850-1000	20
	VS-18X5	18	5	90	50-60	850-1000	25
	VS-20X5	20	5	100	60-70	850-1000	30
	VS-18X6	18	6	108	80-90	850-1000	40
	VS-20X6	20	6	120	80-100	850-1000	40
4	VS-12X5	12	5	60	20-30	850-1000	15
	VS-14X5	14	5	70	30-40	850-1000	15
	VS-16X5	16	5	80	40-50	850-1000	20
	VS-18X5	18	5	90	50-60	850-1000	25
	VS-20X5	20	5	100	60-70	850-1000	30
	VS-18X6	18	6	108	80-90	850-1000	40
	VS-20X6	20	6	120	80-100	850-960	40
	VS-20X7	21	7	140	100-125	850-960	50

5. Vibrating Grizzly Feeder

vibrating grizzly feeder, generally installed between Hopper and Primary jaw crusher in a crushing and screening plant, performs the dual function of a smooth regulated feeding to the crusher as well as segregation of scalp or natural fines received from the mines or river bed. It is subject to heavy load and abrasion due to large sized boulders falling at considerable speed from the Hopper. Once at rest on the vibrating grizzly feeder's main body the large size boulders also tend to impede any kind of vibration produced by ordinary conventional designs.



Capacity And Power Chart For **Vibrating Grizzly Feeder**

modal	Size(feet)	Basket length(feet)	Basket width(feet)	Motor with 1440 rpm
gz6x3	6x3	6	3	10
gz8x4	8x4	8	4	15
gz10x4	10x4	10	4	15
gz12x5	12x5	12	5	25
gz14x5	14x5	14	5	25
gz16x5	16x5	16	5	30

6. Roll Crusher(Dust Machine Bearing Type)

Working Principle

A pair of large wheels or cylinders mounted on horizontal axis. When rocks, ore, and other materials pass between the two cylinders, they are crushed or ground into smaller pieces. The Rollers are fitted in coupling and move on bearings. The moving roller is spring loaded and provides safety to any feared damage in case of uncrushable materials passes through.

Feature Of Roll Crusher(Dust Machine)

- The two parallel Roller shells are rotated in opposite directions and material is crushed in between.
- Out of two rollers is stationery and the other is adjustable. The rollers are made of chilled iron. High Carbon steel and manganese steel.
- Box type frame is made out of M.S. plate reinforced by steel ribs and base feet are M.S. squares riveted to main frame .The tip and side plates are bolted to main frame .

Capacity And Power Chart For **Roll Crusher(Dust Machine Bearing Type)**

ROLLER CRUSHER SIZE		ROLLER DIA METER		ROLLER WIDTH		CAPACITY TPH	RPM	MOTOR REQUIRED H.P. (IN 720 RPM)
INCH	MM	INCH	MM	INCH	MM			
24X16	600x400	24	600	16	400	8-10	110-125	15
30X18	750X450	30	750	18	450	12-15	110-125	30
24X24	600X600	24	600	24	600	15-17	110-125	30
30X24	750X600	30	750	24	600	17-20	110-125	40
32X24	800X600	32	800	24	600	17-20	110-125	40
40X20	1000X500	40	1000	20	500	25-40	110-125	50-60

7. Rotopactor(horizontal Shaft Impactor)

Rotopactor machine is the ultimate weapon against flakiness. It is basically a rotary crusher consisting of an impeller (Rotor) rotating at 1000-1200 r.p.m. inside a steel fabricated body lined with high grade austenitic manganese steel breaker liners. It is used in the secondary or tertiary stage of a stone crushing plant.

The product by the rotopactor is technically and comfortably acceptable to any authority be it NHAI, or DAM construction. It is on the principle of impact crushing with stone to metal breaking at high speed. This machine is best suitable for crushing of river gravels.

Working Principle

The material to be crush is fed into the centre of impeller (ROTOR) rotating at high speed. Then crushed of centrifugal force.

FeatureOf Rotopactor(Horizontal Shaft Impactor)

- High throughput capacity
- Cubicle product with minimal fines
- A variety of manganese tooth profiles available
- Adjustable for change in product sizing

Capacity And Power Chart For **Rotopactor(horizontal Shaft Impactor)**

MACHINE MODE	APPROX PACACITY TPH	MAXIMUM FEED SIZE	MAXIMUM SPEED (RPM)	MOTOT CAPACITY (H.P.)		APPROX WT. IN KG
800	50-75	75MM-100MM	950-1000	75	100	7000
1000	150-200	125MM-150MM	950-1000	125	150	12000

8. Belt Conveyors

Santosh Engineering Works manufactured conveyors in different sizes and designs as per space available at site and to accommodate the requirement of the customers. Conveyors are used to convey the material in different position as feeder

conveyor, Return Conveyor and Delivery Conveyor. Conveyor consisting of frames, joint plates, drum pulley (Head and tail Pulley), counter shafts, V- Belt pulley, bearing, gear with pinion, C.I. Roller (Kuppa) with U.C.P, Indian frame with roller, bearings, motor stand, nylon or tyre belts. Santosh Engineering Works manufactured conveyor frame in **24", 30", 36", 42", 48" & 52"** width by different size of channels.

An entire conveyor system consists of drum pulleys, return rollers, impact rollers, motor, motor stand, joint plate, conveyor belt, gearbox etc. and SEW has all the necessary means and expertise to provide you with all these through our in —house manufacturing facility itself.

9. Steel Hopper

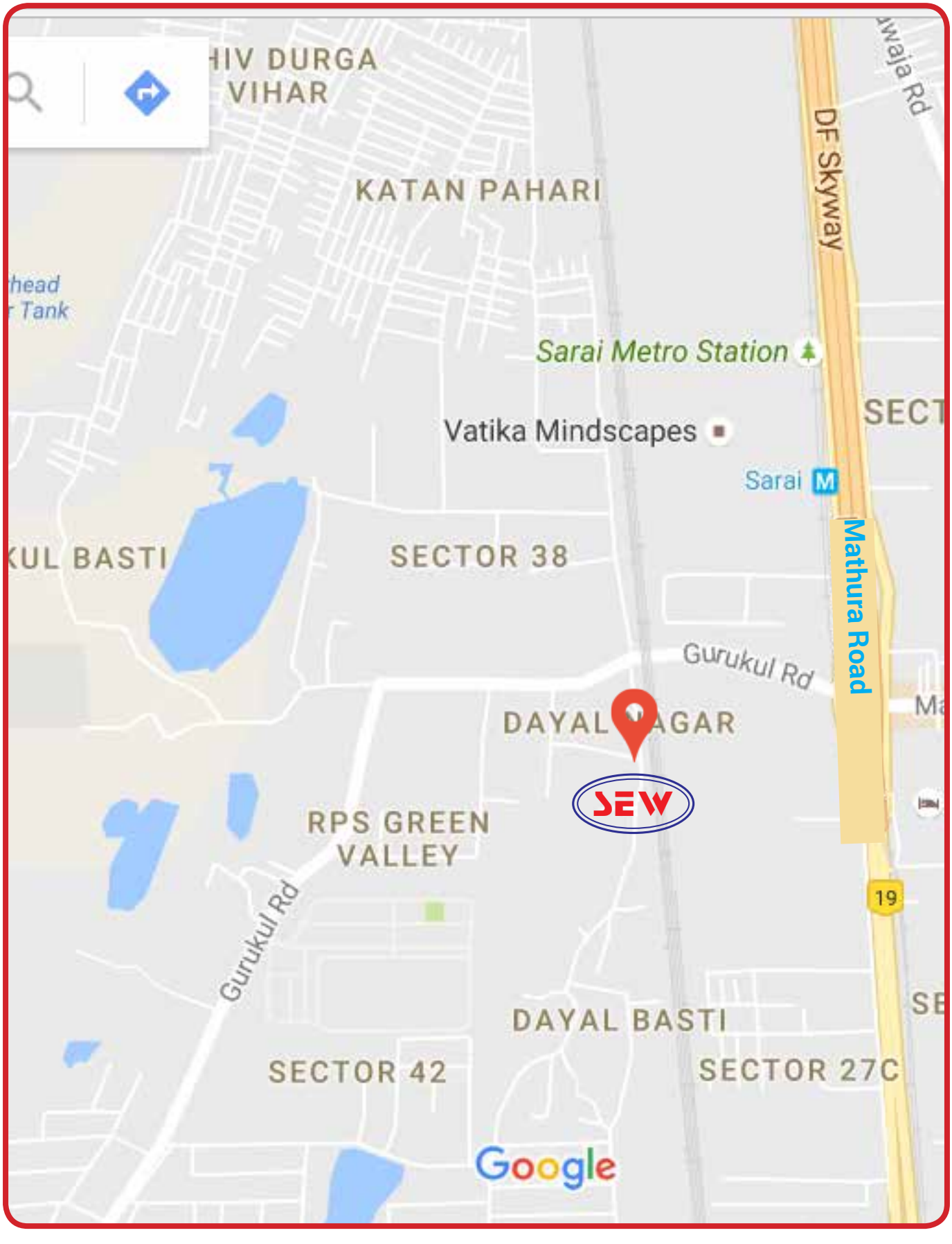
The raw materials are unloaded by trucks into the hopper. By vibrating feeder, raw materials are regularly fed into Primary Jaw Crusher

Feature of Steel Hopper High Strength Adequate designed to contain the stones and to deliver continuously up to last stone. our hopper made of Steel plates reinforced by fabricated steel structure this ready to fit fabricated structure will easily fitted and erected at site As per requirement the capacity of HOPPPERS' 30 ton,50 ton,60 ton and 100ton.

10. Sand Classifier

Wet classification is the art of solid liquid separators i.e spiral separator, separating the solid particles in a mixture of solids and liquids into fractions according to particle size or density by methods other than screening. Made available by us is an unparalleled range of Spiral Classifier that is fabricated using high-class raw-material procured from trusted vendors of the market. The classifying operation is carried out in a pool of fluid pulp confined in a tank arranged to allow the coarse

solids to settle out, whereupon they are removed by mechanical means. Solids that do not settle report as overflow from the pool. Up gradation of 2 to 3% is achieved improving qualities of end product. We offer wide range of spiral classifier, industrial spiral classifier, industrial spiral separator, solid liquid separators and spiral separator.


HIV DURGA
VIHAR
KATAN PAHARI
DF Skyway
Sarai Metro Station
Vatika Mindscapes
Sarai
KUL BASTI
SECTOR 38
Mathura Road
Gurukul Rd
DAYAL NAGAR
SEW
RPS GREEN
VALLEY
Gurukul Rd
19
DAYAL BASTI
SECTOR 42
SECTOR 27C
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