

Marble, Minerals and Mine Industries of Udaipur



Marble, Minerals and Mine Industries of Udaipur



Dr. Sundar Kataria

The State of Rajasthan is famous for minerals deposits, the important metallic and non-metallic minerals found are mainly ores of copper, lead, zinc and silver. Among industrial minerals are rock phosphate, asbestos, calcite, limestone, barites and marble etc.

The marble of excellent quality, pure white is famous from Makrana used for monuments, statues and temples building structures etc. not only in India but

abroad around the globe since ages.

Mining activities of Udaipur is known since 14th century when mining of zinc and lead was started in Zawar mine area. The Udaipur is also very rich in minerals that helped our Nation to be self-sufficient to meet our domestic demands as well as exporting to earn foreign exchange.

The government, semi-government as well private industries engage in mining of minerals, marble and refining & production of the products. Udaipur is the number one for sales of minerals production in the country and plays an important contribution to the economy of the District, Rajasthan.

These natural minerals and mines resources are owned by the Nation and leased out to the Miners and manufacturers since 1953, whereas the boom in the marble industry commenced last three decades as a result of fast development of Infrastructure / Building Structures in India, soap-stones and other minerals like rock phosphates, quartz, mica and calcite / limestone etc. also attract miners to invest to manufacture above minerals in the district. Devpura-I soap stone mine is one of the best soap stone mines in the Udaipur district used for number of industries like soaps, medical, paint and beauty products etc. The marble mines and minerals industry is a labour oriented industry and provide excellent employment opportunities for the local population as such no alternate means of lively hood except wooden handicrafts, handicrafts and tourism. This has definitely helped population to enhance living standards of local residents.

The marbles and minerals industries have been moving ahead with the time to adopt modern management system and advance technology. The manufacturing and mining industries believes in sustainable and scientific development of mine, focusing and ensuring by giving priority to conserve flora and fauna around the area. They have been adopting:

- Quality Management System – ISO 9001:2015
- Environmental Management System – ISO 14001:2015
- Occupational Health & Safety Management System – ISO 45001: 2018

They also ensure comply with the legislative and regulatory requirements of Mines Act, Factory Act and Central Pollution Control Board (Environment Act) etc.

Product quality is also been enhanced keeping the requirements of the growing customers' needs for various type, size, quality and textures & colours of the natural marble stones

UCCI: Udaipur Chamber of Commerce & Industry plays a very vital role to extend their expertise support and technology to the industry through training programmes and research & development and waste management towards sustainability and continuity of the business related to marbles, minerals & mines and manufacturing of the number of products.

We are "International Certification Services", India's first Certification Body / Conformity Assessment Body has their branch offices at Udaipur and Jaipur in Rajasthan. We have been working in close association with UCCI to extend our certification of the management system, training & qualification of personnel and product / CE marking etc. for the past twenty five years and successfully certified many organizations related to marbles, minerals and mine industries.





Late Shri Umesh Kumar Jha

Adoption of Modern Technology In Marble Mining

India is one of the few countries in the world possessing a wide spectrum of dimensional stone - viz Granite, Marble, Sand Stone, Lime Stone, Slate and Quartzite etc. The Indian stone Industry has evolved in to the production and manufacturing of dimensional stone blocks for monumental and building purposes, processed monuments and tomb stone, structural slabs in

all forms, sculptures and artifacts, calibrated modular tiles, cobbles, cubes, kerbs, land scape garden stone etc.

India is the largest producer of stone in the world accounting for about 27-30% of world stone production, Rajasthan has major share and in case of marble it accounts for about 95%. The dimensional stone industry in India is well equipped with modern technology with wide spread use of Excavators, Front end loaders, jet burners, Diamond wire saws, DTH Drills, Line Drills, Derrick Cranes Mobile Cranes, Block Handlers, Hydro bags, Hole Finder and Dot Lasers etc.

Scientific studies of Mineral deposit before development of the mine is must. It is very difficult to know the behavior of the deposit and depth without making proper scientific studies. This is also important for making heavy investment in the development, selection and purchase of mining machineries. It is desirable to under take exploratory drilling to estimate the quality and quantity of the mineral deposit after geological study and mapping out the whole lased area carefully. This study also avoids wasteful investment on the development of the mine.

ADOPTION OF MODERN TECHNOLOGY IN MARBLE MINING

Adoption of modern technology in dimensional stone industry is the need to justify its potential as the largest producer of dimensional stone in the world. Use and application of modern technology and various type for marble mining are significant to achieve better recovery with higher percentage of blocks. Some of the equipment and techniques are described as under:

Hydraulic Excavators & Dumpers / Tippers

In earlier days, excavators were used to remove overburden and clean the working faces. Gradually concept to utilize hydraulic excavators for toppling of large marble benches weighing more than 1500 MT or more, segregating sized blocks and waste marble pieces, installing LD4 or other drills for drilling co planner holes, mounting hydraulic hammers for breaking large waste rock pieces for transportation was perceived. These equipments are very useful for widening of the gaps to accommodate Air pillows, removal of sized blocks and shifting of the heavy blocks weighting 20-30 MT. from one location to other. The use of large capacity tippers / dumpers have reduced the traffic density in large mechanized mines and reduced the cost per km transportation of overburden / waste rock. Volvo tippers with 30 MT. carrying are used in many marble mines.



Drilling

Drilling is an important operation in marble mining. Drill machines are used for making co-planner holes, for passing diamond wire for different cuts, Performantic drilling for achieving a slot for quarry front cutting and line drilling for sizing of blocks.





So far 4" dia. holes were drilled for passing diamond wire but the use of 3 1/2" holes has reduced the drilling time and cost per meter without any difficulty for diamond wire passing. The use of self propelled wagon drills has also resulted in enhanced drilling rate, more manoeuvrelity and elimination of ancillary equipment for installing drills.

Casting Technology

Quarry front cutting / Gally making is a most operation in marble mining. Earlier this is used to be achieved by quarry master – diamond wire saw combination. In this method 115mm dia. holes were drilled by quarry master drill machines at close spacing, partition between two holes was broken by percussive motion of this drill

using a specially made bit with side flaps.

The slot of desired length & width is then connected to two vertical or horizontal holes of 115mm dia. and diamond wire is passed for marking different cutes for obtaining marble blocks. This was time consuming process and substantial quantity of marble was wasted.

Then came the era of jet belt saw-diamond wire saw combination (Chain saw machine is not suitable for areas having high quartz contents which frequently damage the TC inserts). This technique was costly with limitation of 3 m cuts and the cutting speed was also low.

Presently Blind cut technique and diamond wire saw combination is used which is cost effective as well as time saving. The technique was known earlier but it could be with lot of development, construction of required structure, selection and proper sealing and encasing of bearing at lower end of the structure etc. In this technique two vertical holes of 175 mm dia. up to desired depth are drilled with the help of mega drill machines. These holes are connected with 115 mm dia. horizontal holes for passing diamond wire for bottom and side cuts as well as to ensure a passage for marble slurry during actual cut. Both the channels with diamond wire are lowered in these holes and connected to a diamond wire saw.

The diamond wire saw moves with rotating and running diamond wire and lineally cut the marble rock from top to bottom. In the latest development a pulley with stand is placed in the center of the cutting width over which the diamond wire passes to minimize the thrust while cutting the corner edges of the cut. After the corner edges are cut this center pulley is taken out. The height of blind cut channel is kept little more than the height of the cut so as to compensate the parabolic cutting surface at the bottom and can save time and cost in making a Quarry Front Cut (Gally) which turn reflects in much higher productivity.

Other very important operation in marble mining is toppling of the benches. After achieving all cuts in a marble bench (approx 5.5'x3.5'x55' size) it is required to be toppled for making transportable marble blocks. Earlier this was achieved by use of hydraulic jacks, which was time consuming and cumbersome practice. Now a days two techniques are is practice for toppling of benches:

a)Detonation effect - In this technique 34mm dia. holes of required depth are drilled at close spacing of 8-10cm. On completion of drilling alternate hole is charged with 10gm detonating fuse and holes are tightly stemmed. Then all holes are connected and fired.

b)Metallic hydro bag inflation – In this technique 2mm thick metallic bags are lowered in the diamond wire saw cut and these bags are inflated using a hydraulic pump for displacement of the marble bench for toppling. These are safe in use and no valuable marble is wasted as these are directly lowered in the diamond wire saw cuts. These bags are only used once and are "use and throw" type.



Sizing of Blocks :

After marble bench is toppled, sizing line are marked by study of grain, lusture hair cracks etc. and sizing of blocks is achieved putting father and wedges in closely spaced 34mm dia. holes of desired depth or by dressing cuts with the help of diamond wire saw machine.

Loading Technique :

Though in some marble mine age old jib cranes are still in use but use of derrick cranes with 40m boom and lifting capacity of 25MT is increasing day by day. At some large mines Derrick cranes with 70m boom and lifting capacity of 40MT are also used. These cranes can work under difficult condition for loading of blocks as well as lowering / lifting chain saw / belt saw, Diamond wire saw, compressors and even excavators in some odd cases. The use of mobile cranes is also increasing in large mines in the areas of Derrick cranes.

Block Handling Technology :

Huge Wheel loaders with block handling bucket and fork attachment are used to clear the working faces for maintaining the cycle of operation. These are also extensively used for bringing marble block in the approach of fixed derrick cranes from the areas away from the cranes. These loaders are equipped with quick coupling system for attaching / detaching block handling bucket and fork within very short time. Caterpillar wheel loaders modal 988 F II models with 6 cu. m. bucket are used for this purpose.

Hole Alignment Techniques :



a)Hole Realignment Technique:

Vertical and horizontal co-planner holes drilled for passing diamond wire for achieving cuts some times does not flush with each other and diamond wire can not be passed for achieving a cut. An effective technique i.e. hole finder device (Cercafori) is used for realignment of holes. The system consists of an electronic machine, a transmitter and receiver. Receiver and transmitter are lowered in vertical and horizontal holes respectively and their cables are connected to the electronic device. With the movement transmitter and receiver, the device indicates the distance and direction of missed holes and accordingly the new hole can be drilled. This system is very successful and 95% of realigned holes are flushed saving time and money in achieving diamond wire saw cuts.

b)Point Laser beam Technique:

to avoid the chances of misalignment of co-planner holes i.e. to bring efficiency in alignment of holes at initial stage a recent technique known as point laser beam is introduced and the result are encouraging. The technique will eliminate the misalignment of co-planner holes in the very first attempt. This is a time and money saving technique.

Maintenance Management for Mining Equipment & Machineries



Anirudh Singh Choondawat

Introduction

The mining industry is a capital-intensive sector that relies heavily on heavy equipment and machinery. These assets are subjected to harsh operating conditions and frequent wear and tear, making effective maintenance management crucial for ensuring their reliability, safety, and productivity. A comprehensive maintenance management system can significantly impact a mining operation's efficiency, cost-effectiveness, and overall profitability.



Objectives of Maintenance Management

The primary objectives of maintenance management for mining equipment and machinery include:

- **Optimizing Equipment Reliability:** Minimize downtime and unplanned maintenance by proactively addressing potential issues.
- **Enhancing Safety:** Ensure that equipment operates safely and in compliance with safety regulations.
- **Extending Equipment Lifespan:** Prolong the asset's useful life by implementing preventive and predictive maintenance practices.
- **Reducing Maintenance Costs:** Minimize the overall cost of maintenance by optimizing resource allocation and inventory management.
- **Improving Productivity:** Maximize equipment uptime and maintain consistent production levels.

Types of Maintenance

Maintenance strategies can be broadly categorized into four main types:

- **Reactive Maintenance:** Addressing equipment failures after they occur, often resulting in unplanned downtime and higher costs.
- **Preventive Maintenance:** Implementing scheduled maintenance tasks to prevent potential failures before they occur.
- **Predictive Maintenance:** Utilizing advanced monitoring techniques to anticipate equipment failures and plan maintenance accordingly.
- **Proactive Maintenance:** Taking preventive actions to eliminate the root causes of equipment failures, extending asset lifespan.

Maintenance Management Strategies

- Effective maintenance management for mining equipment and machinery involves implementing a combination of strategies, including:
- **Developing a Maintenance Plan:** Creating a comprehensive plan that outlines maintenance tasks, schedules, and resource requirements.

- **Implementing Preventive Maintenance:** Scheduling regular inspections, lubrication, and minor repairs to prevent major breakdowns.
- **Utilizing Predictive Maintenance Technologies:** Employing sensors, data analytics, and machine learning to predict equipment failures.
- **Establishing Inventory Management System:** Optimizing spare parts inventory to ensure availability while minimizing costs.
- **Implementing CMMS (Computerized Maintenance Management System):** Utilizing software to manage maintenance activities, track equipment history, and optimize resource allocation.
- **Continuous Improvement:** Regularly reviewing and improving maintenance practices based on data analysis and experience.

Benefits of Effective Maintenance Management

- Effective maintenance management for mining equipment and machinery offers numerous benefits, including:
- **Reduced Downtime and Increased Productivity:** Minimize unplanned maintenance and maximize equipment uptime, leading to higher production levels.
- **Lower Maintenance Costs:** Optimize resource allocation, reduce spare parts consumption, and extend asset lifespan, resulting in lower maintenance costs.
- **Improved Safety:** Ensure equipment operates safely and in compliance with regulations, minimizing safety hazards and accidents.
- **Enhanced Asset Life:** Extend the useful life of equipment, maximizing the return on investment.
- **Improved Decision-Making:** Utilize data-driven insights to make informed maintenance decisions and optimize resource allocation.

Medical Tourism & Health Care In Udaipur - India



Rajesh Kataria

India has developed itself as a haven of medical tourism. Every year many medical tourists visit India seeking their medical treatment owing to the fact that the medical technology and infrastructure in India is very economical and at par when compared to Europe, UK, and USA. With the emergence of globalization, our world has now shrunk into a small global village. Each country has become close to one another. The concept of medical tourism was mainly devised to aid the global citizens exploit the tourist sojourns with the help of world class quality and cost effective medical care. Since the last few years India has emerged as a medical hub and one of the most preferred medical destinations in the whole world.



Medical tourism in Udaipur is well known and acknowledged due to plethora of world class hospitals that offer medical services with personalized touch. Tourist from all across the world visit Udaipur in order to seek treatment for their respective medical problems. Udaipur recently gained limelight when an Australian couple searched and read an article on the internet on IVF, written by a renowned doctor of Udaipur. They visited Udaipur for their treatment and on 12th May 2013, they were blessed with a baby that took birth through IVF.

Udaipur is a beautiful city which is set amid the Aravali ranges of Rajasthan in India. It is known for its palaces, lakes, and forts. Regarded as one of the most romantic cities of the world, Udaipur has gained strong foothold in the country owing to its medical tourism. There are different factors which contribute to the growth of medical tourism in Udaipur and some of these are economical medical cost, advanced infrastructure and technology, great hospitality and short waiting list.

Medical Tourism of Udaipur

The Medical Tourism of Udaipur is on rise as thousands of people from different parts of India and abroad come to the city. NABS acclaimed private hospital and medical facilities of International standards have marked Udaipur on the world map.

The standards and facilities available in the hospitals make tourists come to Udaipur for medical treatment. The NABS acclaimed hospital provides 25% less costly treatment to the foreigners.

The following pointers state the condition of Udaipur's Medical status:

- For operations such as root canal, patients have to wait for 2-3 months in USA and UK. Also, the difficulty to meet super specialist doctors lead people to refer to general physicians.
- The private hospitals of Udaipur, as compared to foreign hospitals provide facilities with 25% less cost. The cost of MRI in private hospital here is Rs. 3000 whereas in foreign it comes to around \$5,000.
- The upcoming Specialty Wing of MB hospital, slated to commence its construction in January will provide state-of-art facilities in minimal cost.
- The state's only Ayurveda College is in Udaipur. Many specialists who have pursued their PG in Panchkarma from this college are providing treatment in the city. Many foreigners are undertaking treatment through various liturgies of Ayurveda.

Besides these, the number of tourists that visited the city last year were 1,85,313. On an average every year, Udaipur welcomes 1.75-2 Lac tourists. If there are more hospitals which are NABH approved and if more Ayurveda therapy centers are put up by the state government, Udaipur can turn out to be the best in terms of Medical tourism in the state.



Ritika Kataria

Save Global Warming & Save Ozone Layer

Global Warming :

Burning fossil fuels has long been known to cause acid rain. It now appears that it has another potentially dangerous side effect- Global Warming. The carbon dioxide (CO₂) produced acts as a greenhouse gas in the atmosphere trapping heat from the Sun that would otherwise be reflected back into

space. Rising levels of CO₂ are made worse by deforestation, since plants remove this gas from the air when they photosynthesize.

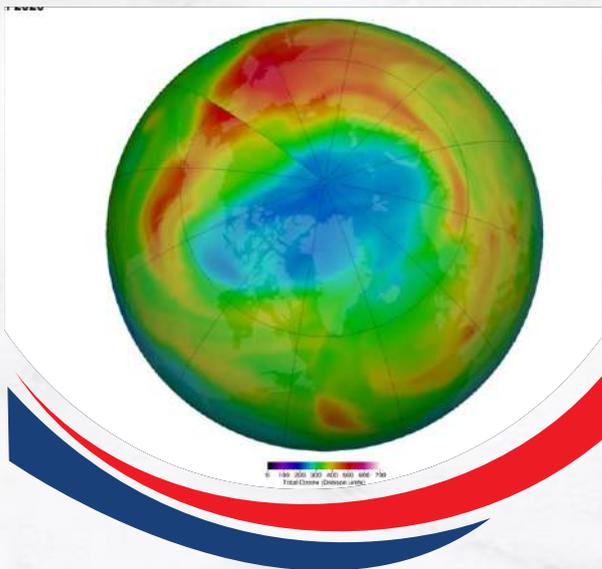
Although CO₂ is the worst contributor to global warming, Other greenhouse gases include nitrogen dioxide (NO₂) from Motor vehicle exhausts, and methane (CH₄) produced by livestock and bacterial activity in rice paddies. The predicted effects of global warming include increasingly chaotic weather patterns and rising sea levels



Ozone Layer :

The ozone layer is part of Earth's atmosphere. It lies about 14 miles above Earth surface. The ozone layer protects our Planet from harmful radiations of sun. Certain gases, called chlorofluorocarbons, May damage the ozone layer.

Scientists have found that the ozone layer has become thinner over Antarctica each spring since 1970s.



Ozone-friendly

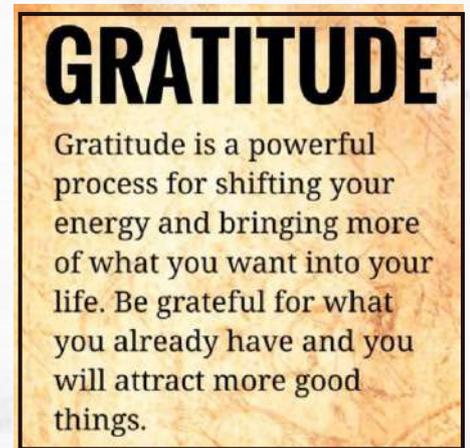
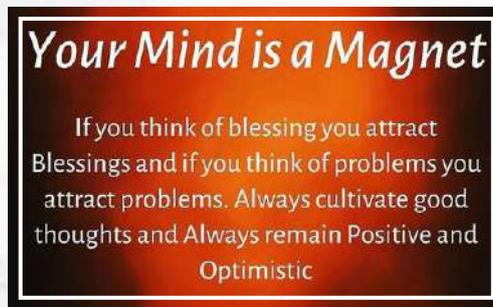
A material is said to be ozone-friendly when it does not Produce harmful chemicals or gases like Chlorofluorocarbons that could destroy the ozone layer in the atmosphere.

Many countries are now replacing chlorofluorocarbons used in industry with ozone-friendly materials. This is helping to remove one of the major causes of the depletion of the ozone layer.

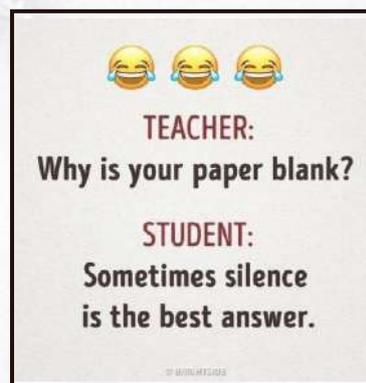
Training Calendar- October-2023

Course Title	Start Date	End Date	Fees	Duration	Class Type
LA 13485	4th Dec 2023	8th Dec 2023	INR 17,000 + 18% GST	10am to 5.00pm	Online
IQA IMS	11th Dec 2023	13th Dec 2023	INR 7,000+18% GST	10am to 5.00pm	Online
LA QMS	18th Dec 2023	22nd Dec 2023	INR 15,000 + 18% GST	10am to 5.00pm	Online
IQA QMS	25th Dec 2023	26th Dec 2023	INR 7,000 + 18% GST	10am to 5.00pm	Online

Stress Buster Zone



Jokes



Horoscope Month of December - 2023



Aries

This is the month that your career path speeds up. There will be chances for growth and recognition. So, make sure that you are flexible and ready enough to turn these opportunities into your benefits. Concentrate on financial planning so as not to engage in unplanned expenditures. Be proactive in resolving any lingering disputes in your home to promote a tranquil and welcoming atmosphere. Discipline in study routines will enhance academic pursuits.



Taurus

Don't be afraid of taking calculated risks, as they may open a path towards greater innovation. Financially, exercising caution is key. There might be a couple of enticing ventures, but it will pay to think twice before undertaking any major steps. Family life might encounter fluctuations. Have regular communication with an empathic hearing, ensuring there is understanding even in volatile situations. Your patience and commitment to love life may undergo some instability.



Gemini

Your patience might be tested by challenges at work this month. Tension may be triggered due to unforeseen challenges. Keep your sight of your targets, and do not allow failures to weaken your resolve. Navigate through these challenges, trusting your skills and experience. Financially, things might prove quite unpredictable. Make sure you do not spend money on impulse. Do not forget to watch out for the indications of burnout and take breaks whenever possible.



Cancer

Do not forget to be informed about everything you do regarding your career matters. Overspending could create financial strain. Make a functional budget and ensure that it is strictly adhered to. Take some time to listen to your partner now. Build trust and respect while at the same time discouraging impulsiveness. Be on your toes with regard to family dynamics. There can be unwanted miscommunication, which can shape negative perceptions.



Leo

This month, your proactive attitude will pay off, especially in career matters. Look for new opportunities; they might be worth a lot. Your efforts will be acknowledged and pave the way for change. On a financial level, be careful about whom you lend money to; it is recommended that you only extend money to trusted people. Develop mutual trust that improves your communication with people important to you. Engage in physical activities that help your body and mind to be invigorated.



Virgo

This is a month that promotes networking and forging professional relationships. Partner up and search for new opportunities. Those intuitive instincts can lead to new ideas at your workplace. Change the patterns of routines and introduce something new to family activities. Go beyond the ordinary ideas by giving something that will enhance relationships and become a memorable experience. Shake up your learning routine. Diversify your study techniques or consider new topics.

Horoscope Month of December - 2023



Libra

This month, there can be a partial slowdown in work. A project might stagnate at a particular point due to lag, thus slowing down progress. Nevertheless, do not be afraid because this stage is temporary. Use this moment as a chance to reflect and innovate. This is also a time of patience that must be exercised within families. Relationships could seem stable, although not without a breath of fresh air being injected into them. Reconnecting with your family, friends and loved ones on a new level is also very important.



Scorpio

This month will witness a shift in the way you view your career. Explore new opportunities and approaches to how you tackle work. Trust your gut whenever big decisions have to be made. Stay open to innovative ideas. Invest carefully but cautiously, yet optimistically. Take time with loved ones, and cultivate deeper bonds. This will lead to transparent communication that will definitely help in resolving any of the underlying issues. Relish in the romantic moments as they may be spontaneous.



Sagittarius

Break away from normal job practices this month. Do not copy the crowd. This is an opportunity to see where and what you want to be. Be unique. Travel to unexpected places and engage in unfamiliar professions based on your desires, not on others' wishes. Spend some time with your family, sort out the disagreements, and make peace. If you are single, use this period for personal reflections. If you are studying, research your future options well before you choose your subjects.



Capricorn

You are in for new financial ideas this month. Maybe someone's advice, even unexpectedly given, might be helpful in your financial growth. Learn how to handle your money wisely. This could be the beginning of financial stability. Be ready to meet a person who can change your viewpoint of the world. This person can come through a common acquaintance and begin the road through which this transformation will occur. A non-traditional way of learning and upskilling will work wonders.



Aquarius

Listen to your inner voice; it will guide you into a path of choice that is in line with your values and ambition. Seek new perspectives and ways of thinking, for they are the fuel for personal development. There will be a great calmness, and past efforts will be rewarded. It is now prudent to reconsider the objectives and divert towards the future goals. Be novel when dealing with family affairs. Kick away the dust associated with daily routines and give quality time to yourself and your loved ones.



Pisces

This month demands balancing generosity and financial competency. Despite hectic preliminary arrangements, family life will blossom. This is the time of merry meetings and harmony. Enjoy it together, but do not forget that there is a price for it. By sharing, budgetary burdens can be eased. Build on relationships through attentiveness and support. Maintain vitality by practising mindfulness, exercising, and eating balanced nutrition. Take up volunteer work for internal peace.



Birthday's Month of December - 2023...



Sr. No	Emp. Name	Station	Emp. Dob
1	Hemant Sahu	ICS-RBML Electrical Safety	01-Dec-1994
2	Rohan Channe	ICS-MNGL-Pune	01-Dec-1995
3	Anugrah Joy Robert	Mumbai-TenderCell	02-Dec-1984
4	Satya Prakash Singh	ECD-OIL	02-Dec-1990
5	Salahuddin Khan	ICS-ONGC-Uran	02-Dec-1969
6	Vaibhav Yuvraj Ovhal	Mumbai-Technology	03-Dec-1998
7	Sourav Paria	ICS-IOCL Haldia Shutdown	03-Dec-1994
8	Abdul Quadir	ICS-ONGC-Bokaro	04-Dec-1991
9	Satish Kumar Yadav	ICS-IGL New Delhi	04-Dec-1991
10	Shahid Reza	ICS-ONGC South Goa	04-Dec-1993
11	Mohammed Faiz Shaikh	ICS-MGL Steel	05-Dec-1995
12	Mayur Vinubhai Shiroya	ICS Mumbai - Reliance RO	07-Dec-1990
13	Deepali Satish Gupta	ICS-Assure - Property	07-Dec-1996
14	Siddhesh Narvekar	ICS-VENDOR	07-Dec-1989
15	Kuldeep Maurya	ICS-VENDOR	09-Dec-1996
16	Bharatkumar Parmar	ICS-ONGC-WADU	09-Dec-1980
17	Sumit Solanki	ICS-RBML Electrical Safety	09-Dec-1994
18	Shivam Srivastav	ICS-Torrent Gas July 2022	09-Dec-1992
19	Saurav Sharma	New Delhi	10-Dec-1995
20	Ambika Das	Mumbai-TenderCell	10-Dec-1997
21	Abdul Hakeem	ICS-Torrent Gas	10-Dec-1998
22	Rajkumar Vishwakarma	Mumbai-Finance	10-Dec-1998
23	Surya Prakash Narayan	ICS-ONGC-Mehsana	10-Dec-1988
24	MD NASAR IQUBAL .	ICS-IOCL Guwahati	11-Dec-1997
25	Imam Aazam	ICS-ONGC-Ankleshwar	11-Dec-1997
26	Manoj Kumar . .	ICS-ONGC-Ankleshwar	12-Dec-1995
27	Manasi Rupesh Patil	Mumbai-Admin	12-Dec-1979
28	Amit Kumar - Sharma	ICS-ONGC-Ankleshwar	12-Dec-1996
29	Umakant Rai	ICS-IGL New Delhi	13-Dec-1970
30	Abhishek Srivastava	ICS-Assure-Delhi	13-Dec-2000
31	Nikash Kumar .	ICS-RBML Electrical Safety	14-Dec-1999
32	Arup Borthakur	ICS-RBML TT	14-Dec-1993
33	Naushad Ahmed	ICS-HPCL Vizag Shutdown	15-Dec-1996
34	Soharab Alam	ICS-ONGC-Ankleshwar	15-Dec-1993
35	Nikunj Chandegara	ICS-ONGC-Cambay	16-Dec-1990
36	Hardik Kumar Chaudhari	ICS-Torrent Gas July 2022	16-Dec-1992
37	Dilip Kumar Patel	ICS-ONGC-Mehsana	16-Dec-1996

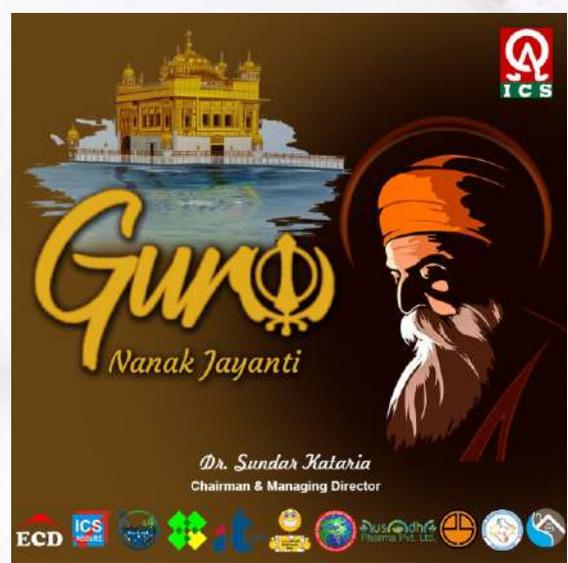
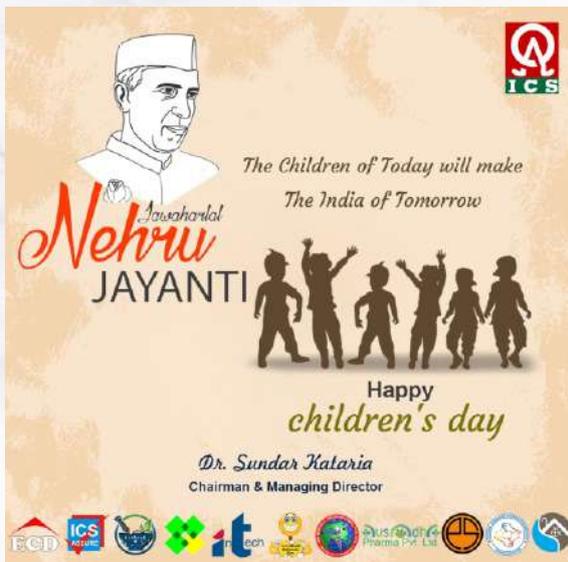


Birthday's Month of December - 2023...



Sr. No	Emp. Name	Station	Emp. Dob
38	FAISAL SHAIKH	ICS-VENDOR	16-Dec-1993
39	Arun Kumar	ICS-Torrent Gas July 2022	16-Dec-1990
40	Md Azharuddin	ICS-Torrent Gas	17-Dec-1997
41	Jagdish Sutar	ICS-ONGC-Offshore	17-Dec-1993
42	Abdus Sami	ICS-IGL New Delhi	18-Dec-1999
43	Manish Rambhau Puranik	Pune	19-Dec-1972
44	Rohit Rahangdale	ICS-RBML TT	19-Dec-1997
45	Manikandan P	ICS-ISRO Coimbatore	20-Dec-1993
46	Vishal Govindbhai Desai	ICS-ONGC-Mehsana	20-Dec-1996
47	Abhishek Kumar	ICS-IOCL Guwahati	20-Dec-1994
48	Pankaj Kumar - Prasad	ICS-IOCL Haldia Shutdown	20-Dec-1991
49	Atul Inkar	Ausadha	21-Dec-1990
50	Madhu Narendra Kumar Reddy	ICS-ONGC-Rajahmundry	21-Dec-1992
51	Abhishek Kumar Sharma	Indore	22-Dec-1986
52	Pratap Prakash Kangane	ICS-Assure	22-Dec-1995
53	Karthick K	ICS-ISRO Coimbatore	23-Dec-1991
54	Imran Alam	ICS-HPCL Vizag Shutdown	24-Dec-1997
55	Sammi Kumar	ICS-RBML Electrical Safety	24-Dec-1992
56	Rohit Singh - Negi	ICS-IGL New Delhi	24-Dec-2000
57	Nilesh Kumar	ICS-IGL New Delhi	25-Dec-1989
58	Chandra Yadav	ICS-ONGC-Bokaro	25-Dec-1993
59	Kudipudi Durga Rao	ICS-ISRO Hyderabad	25-Dec-1991
60	Purva Patel	ICS-ONGC-WADU	26-Dec-1994
61	Rajesh Singh - Rawat	ICS-IGL New Delhi	26-Dec-1995
62	Vishal Bhor	ICS-Assure - Reconstruction	26-Dec-1994
63	Jayesh Laxman Shinde	Pune	26-Dec-1990
64	Govindbhai Chaudhari	ICS-ONGC-Mehsana	27-Dec-1976
65	Rinkoo - Sharma	ICS-IGL New Delhi	28-Dec-1992
66	Nilesh Rane	ECD-MGL	28-Dec-1979
67	Karthik Pandiyan.K .	ICS-ISRO Coimbatore	28-Dec-1995
68	Kaushik Parmar	ICS-ONGC-WADU	28-Dec-1993
69	Saifali Shaikh	ICS-MNGL Nashik	29-Dec-1994
70	Arpit Joshi	ICS-ONGC-Cambay	29-Dec-1995
71	Pradeep Gupta	ICS-IGL New Delhi	30-Dec-1996
72	MayurBatva	ICS-Torrent Gas-Junagarh	30-Dec-1997
73	Md Ammar Haidar	ICS-HPCL Vizag Shutdown	30-Dec-1997
74	Vishan Singh	ICS-Torrent Gas July 2022	31-Dec-1995

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