



“SOLUTIONS FOR SUCCESSFUL
GOLD MINING OPERATIONS
(HARD ROCK AND ALLUVIAL)”

Apex Gold Mining Solutions Pvt. Ltd.

Making Hard Rock & Alluvial Gold Mining Operations more Efficient & Sustainable by providing technical consulting services.

We assist and guide in prospecting as well as exploring at depth like trenching and core drilling, with core logging & analysis. We also help to customize methods of mining and mineral processing, both for open pit and underground mining.

Our team of experts plan optimum production processes by managing the 3M's - Manpower, Machinery, and Material.

We also assist clients in the recruitment, evaluation, and training of manpower.

With us you get all services under one roof - consultancy services, engineering, design, procurement, installation, and commissioning of customized mineral beneficiation plants.

FOR HARD ROCK:



Plants of capacity up to 100 tonnes per hour



High recovery and enrichment ratio-achieved with both physical and chemical techniques i.e., Floatation, Leaching, and CIP



Latest machinery selection for Crushing, Grinding, Screening, Gravity Separation & Beneficiation



Economical and latest methods of processing to achieve maximum concentrate enrichment



Guaranteed durability to run processes 24x7

FOR ALLUVIAL:



Cost-effective & efficient setups for small & medium scale gold mining operations



Multi-pass technology, including sluicing and centrifuging to enhance recovery



Reduce water consumption by implementing storage and de-watering technologies



Mobile as well as stationary units

EXPERTS ON BOARD



Mr. Kawaljit Singh Dhami

Managing Director

Mr. Dhami has over 30 years of experience in consulting, business planning as well as managing various engineering industries including gold mining. He is a Mechanical Engineer and holds an MBA in Operations management as well as the Six sigma master black belt certification.



Mr. Shanth Kumar

Technical Director
(Mining & Geology)

Mr. Shanth Kumar is an eminent mining engineer and has over 4-decades of experience as project head with a premier gold producer in India. He specializes in Shaft Sinking, Mine Mechanized Development and Production, Survey, Geology, Ventilation, Rock Mechanics, Mine de-watering system, and Planning with software. He also has wide exposure to mining activities in Open Pit Mining as well as in Deep Metal Mechanized underground mines operating almost 1 Km below the surface.



Mr. Shankar Gouda

Technical Director
(Metallurgy)

Mr. Shankar Gouda has passion for innovation in Gold, Copper and Tungsten extraction. With over 5-decades of experience at top positions in mining operations, metal processing plants and R&D in India, he is an expert in Bio leaching, refining and assaying. He has also dealt with various types of ores in different geographies of the world viz. Tanzania, Armenia, Togo and Ghana.



Mr. Krishna Naik

Technical Director
(Engineering)

Mr. Krishna Naik is an experienced Chartered Engineer with 30 years spent in operations and project management for large scale gold mining projects. He is a specialist in planning, designing, procurement, installation and commission of large-scale beneficiation plants. He is an expert in optimizing SAG mill & Ball mill and is familiar with different geographies viz. Armenia, Togo, Ghana and India.



Mr. Apsar Miya

Technical Director
(Mining & Geology)

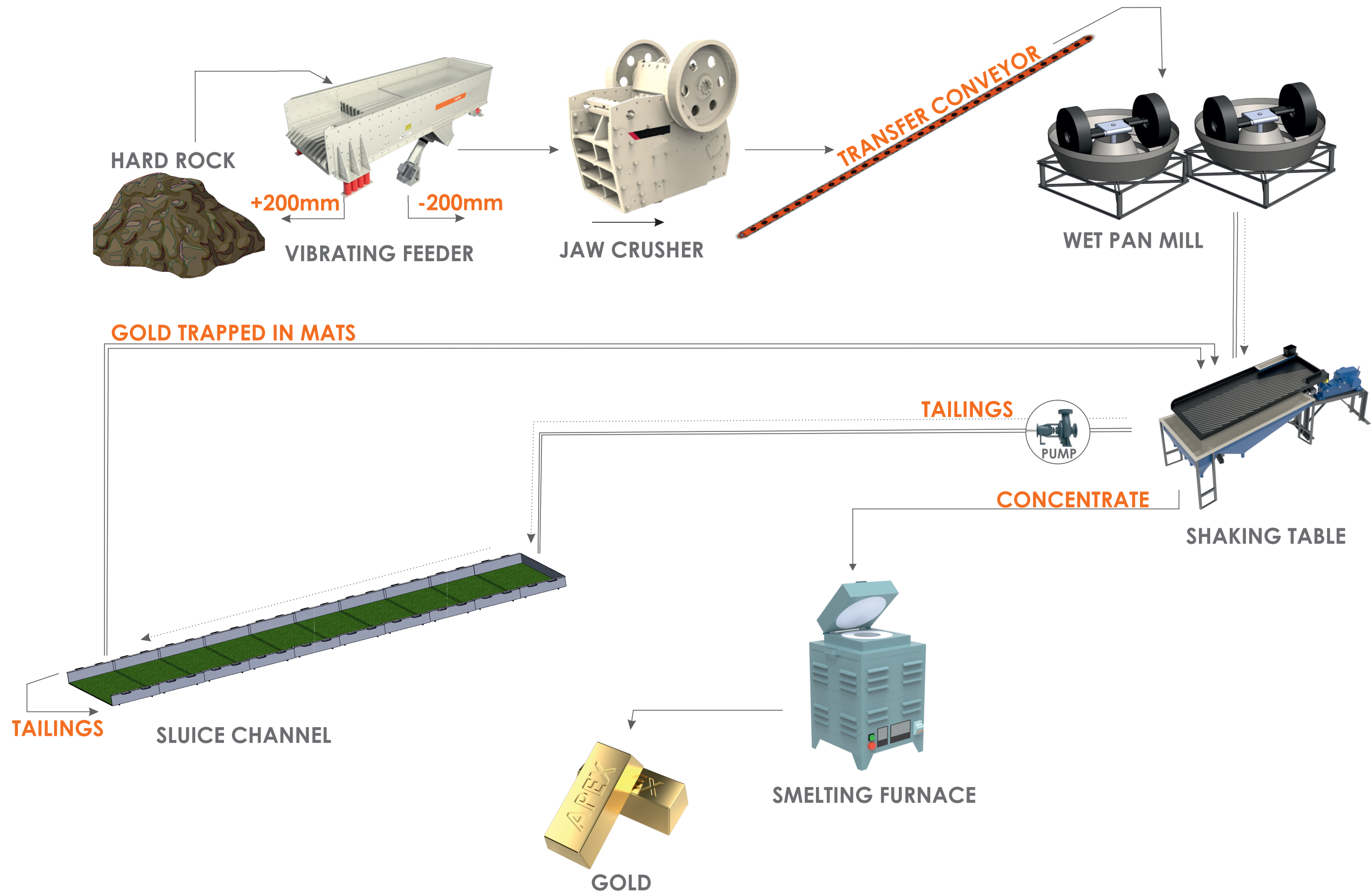
Mr. Apsar Miya is an experienced mining engineer with more than 4-decades of experience in different large-scale Gold mining operations. He is a seasoned mining expert with exceptional insights for hard rock mining, planning, organizing and implementation.

Supplying world-class equipment as well as turnkey projects with best-in-class processes

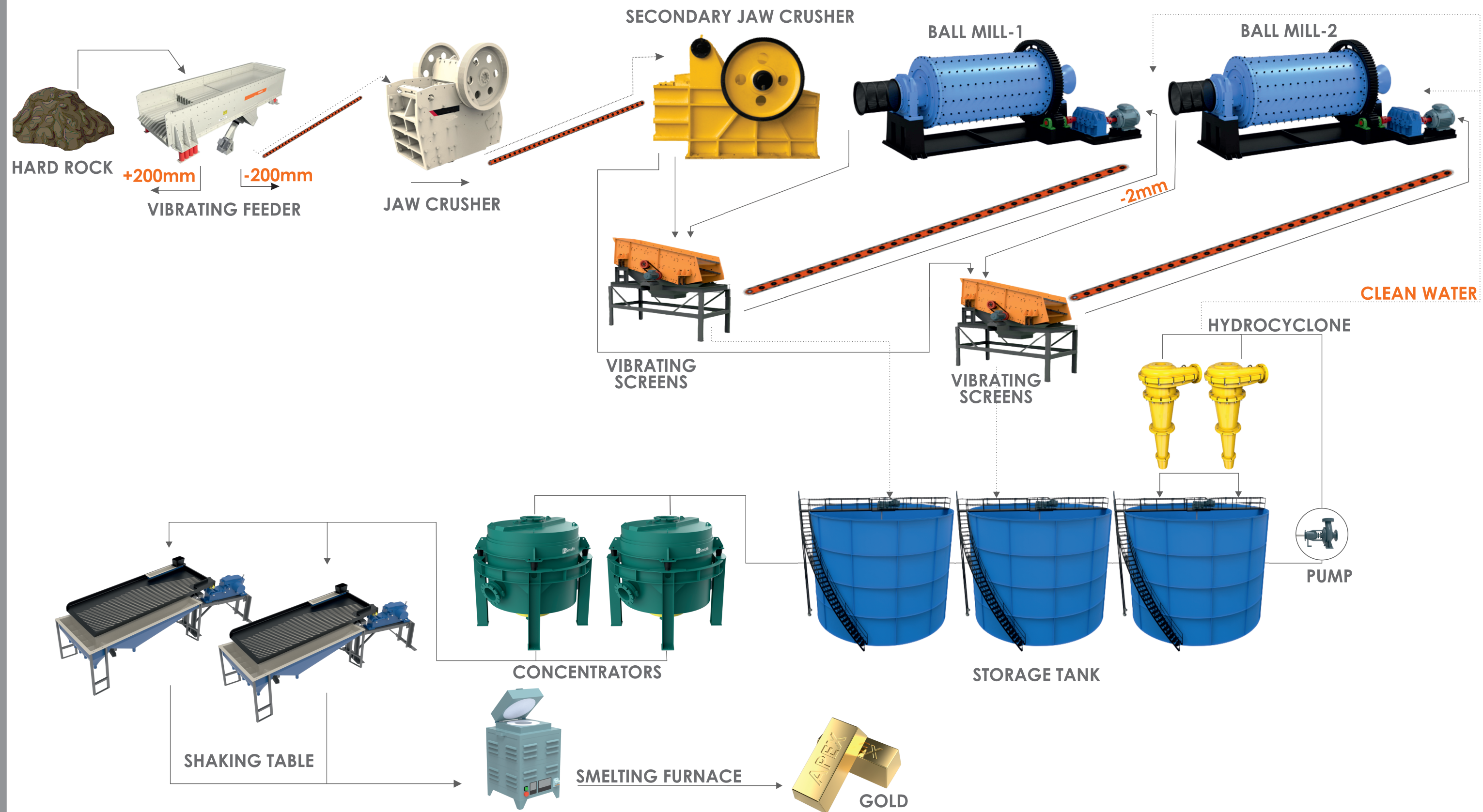
HARD ROCK GOLD MINING PROCESSES & CAPACITIES

MAIN EQUIPMENT	MODERATE RECOVERY PROCESS	HIGH RECOVERY PROCESS	HIGH RECOVERY WITH CHEMICALS PROCESS
	<ul style="list-style-type: none">• Jaw Crusher• Wet Pan Mills• Concentrator• Shaking Table	<ul style="list-style-type: none">• Jaw Crusher• Ball Mill• Vibrating Screen• Hydro Cyclone• Storage Tanks• Concentrator• Shaking Table	<ul style="list-style-type: none">• Jaw Crusher• Ball Mill• Vibrating Screen• Hydro Cyclone• Storage Tanks• Concentrator• Shaking Table• Thickner• Leaching Tank• Carbon In Pulp Process• Electrolysis
CAPACITIES (SOLIDS)			
5 TPH	Moderate Recovery Process-21	This process is not viable at low capacity.	This process is not viable at low capacity.
15 TPH	Moderate Recovery Process-22	High Recovery Process-23	
25 TPH	This process is not suitable for high capacity.	High Recovery Process-24	
50 TPH		High Recovery Process-25	High Recovery with Chemicals Process-27
100 TPH		High Recovery Process-26	High Recovery with Chemicals Process-28

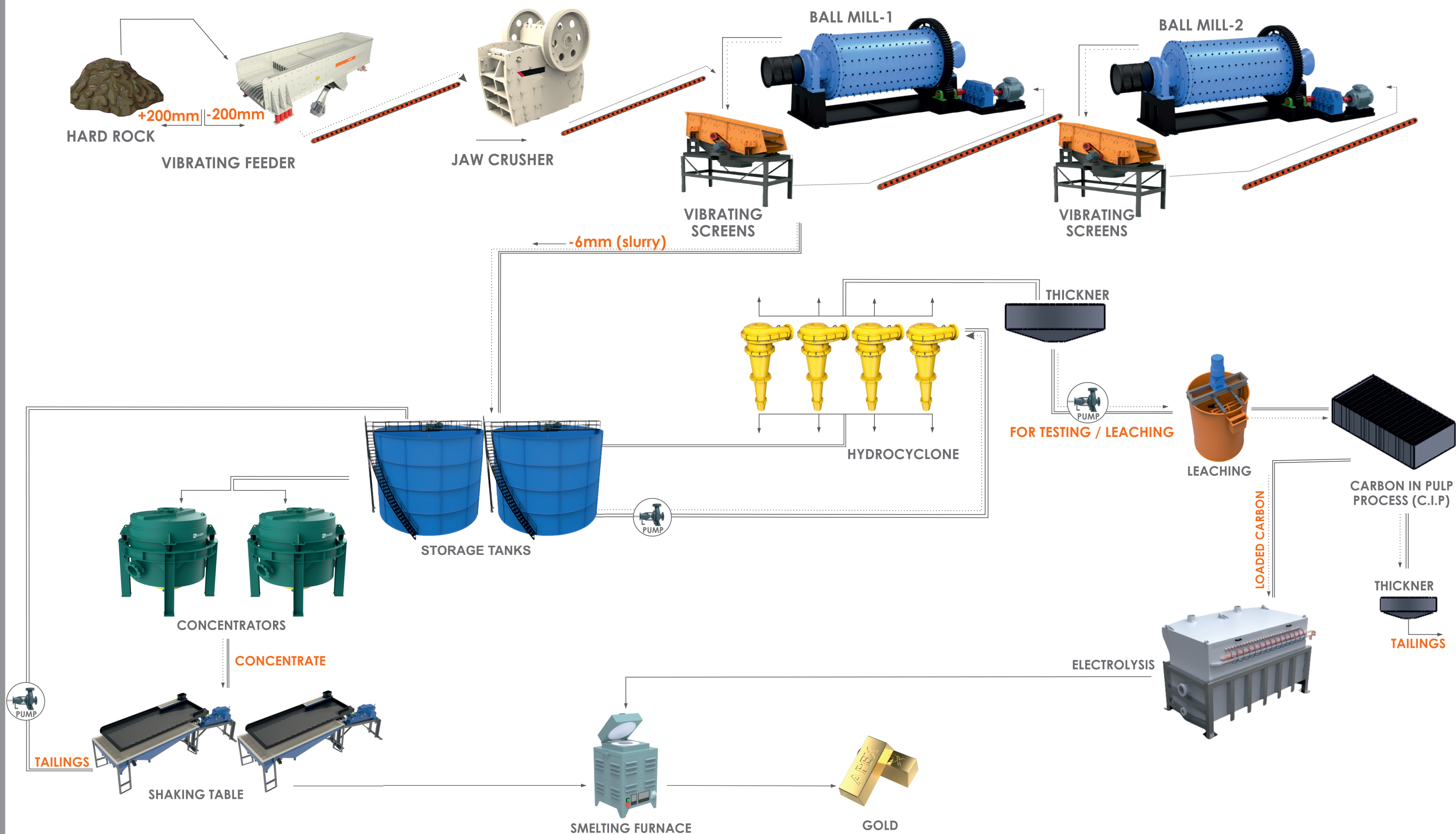
MODERATE RECOVERY PROCESS (5-15 TPH)



HIGH RECOVERY PROCESS (15-100 TPH)



HIGH RECOVERY PROCESS WITH CHEMICALS (50-100 TPH)

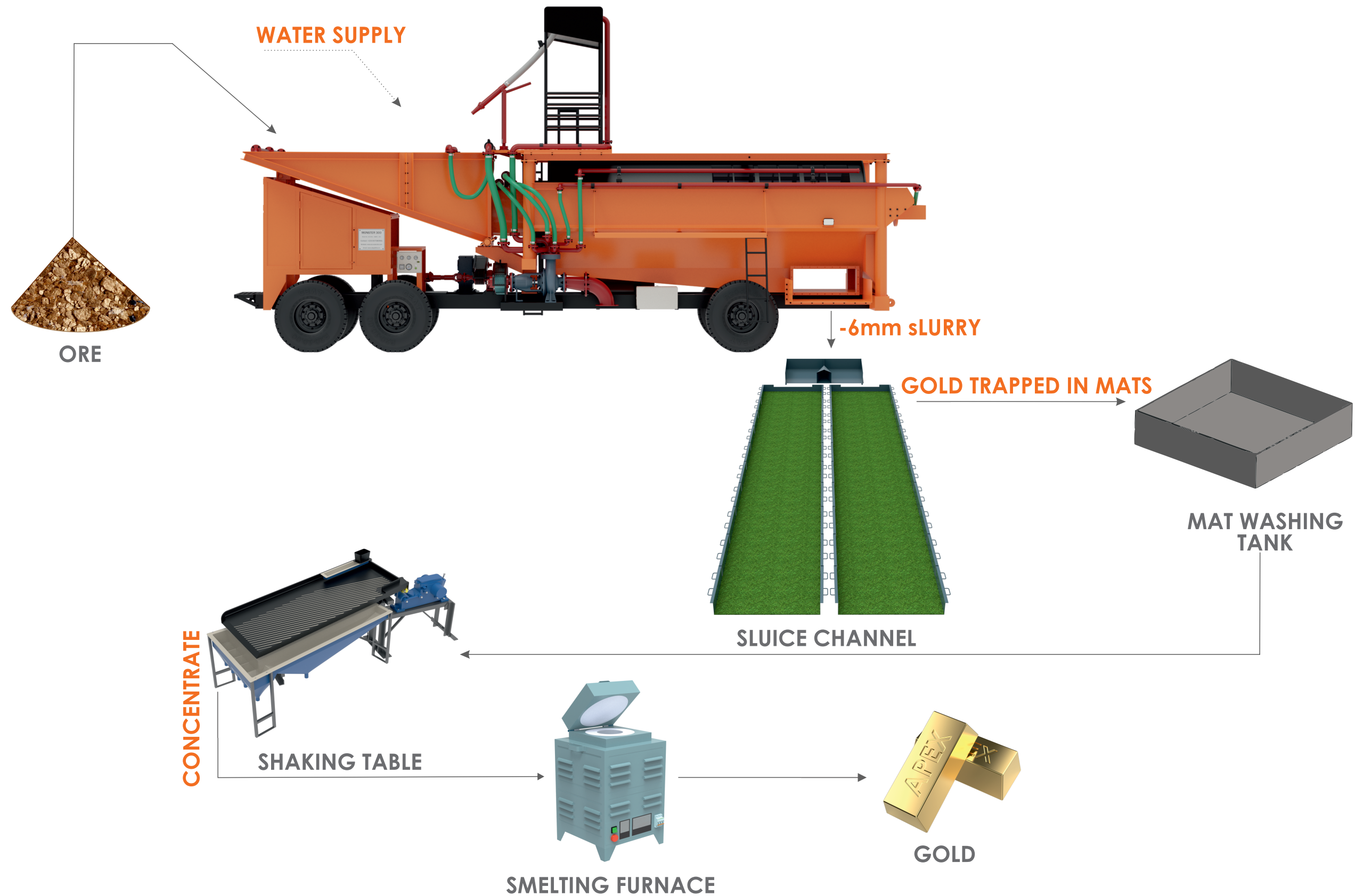


Supplying world-class equipment as well as turnkey projects with best-in-class processes

ALLUVIAL GOLD MINING PROCESSES & CAPACITIES

MAIN EQUIPMENT	MODERATE RECOVERY PROCESS	HIGH RECOVERY PROCESS	HIGH RECOVERY WITH CHEMICALS PROCESS
	<ul style="list-style-type: none">• Washing Plant• Sluice Channel• Shaking Table	<ul style="list-style-type: none">• Washing Plant• Hydro Cyclone (Cavex)• Storage Tanks• Concentrator (Knelson)• Shaking Table	<ul style="list-style-type: none">• Washing Plant• Hydro Cyclone (Cavex)• Storage Tanks• Concentrator (Knelson)• Shaking Table• Thickner• Leaching Tank• Carbon In Pulp Process• Electrolysis
CAPACITIES (SOLIDS)			
60 TPH	Moderate Recovery Process-11 <small>(M200 FS)</small>	High Recovery Process-13 <small>(M200 FS)</small>	This process is not viable at low capacity.
80 TPH	Moderate Recovery Process-12 <small>(M300 FS)</small>	High Recovery Process-14 <small>(M300 FS)</small>	High Recovery with Chemicals Process-17 <small>(M300 FS)</small>
100 TPH	This process is not recommended for higher capacities as recovery goes down drastically at high Tonnage.	High Recovery Process-15 <small>(M400 FS)</small>	High Recovery with Chemicals Process-18 <small>(M400 FS)</small>
120 TPH		High Recovery Process-16 <small>(M500 FS)</small>	High Recovery with Chemicals Process-19 <small>(M500 FS)</small>

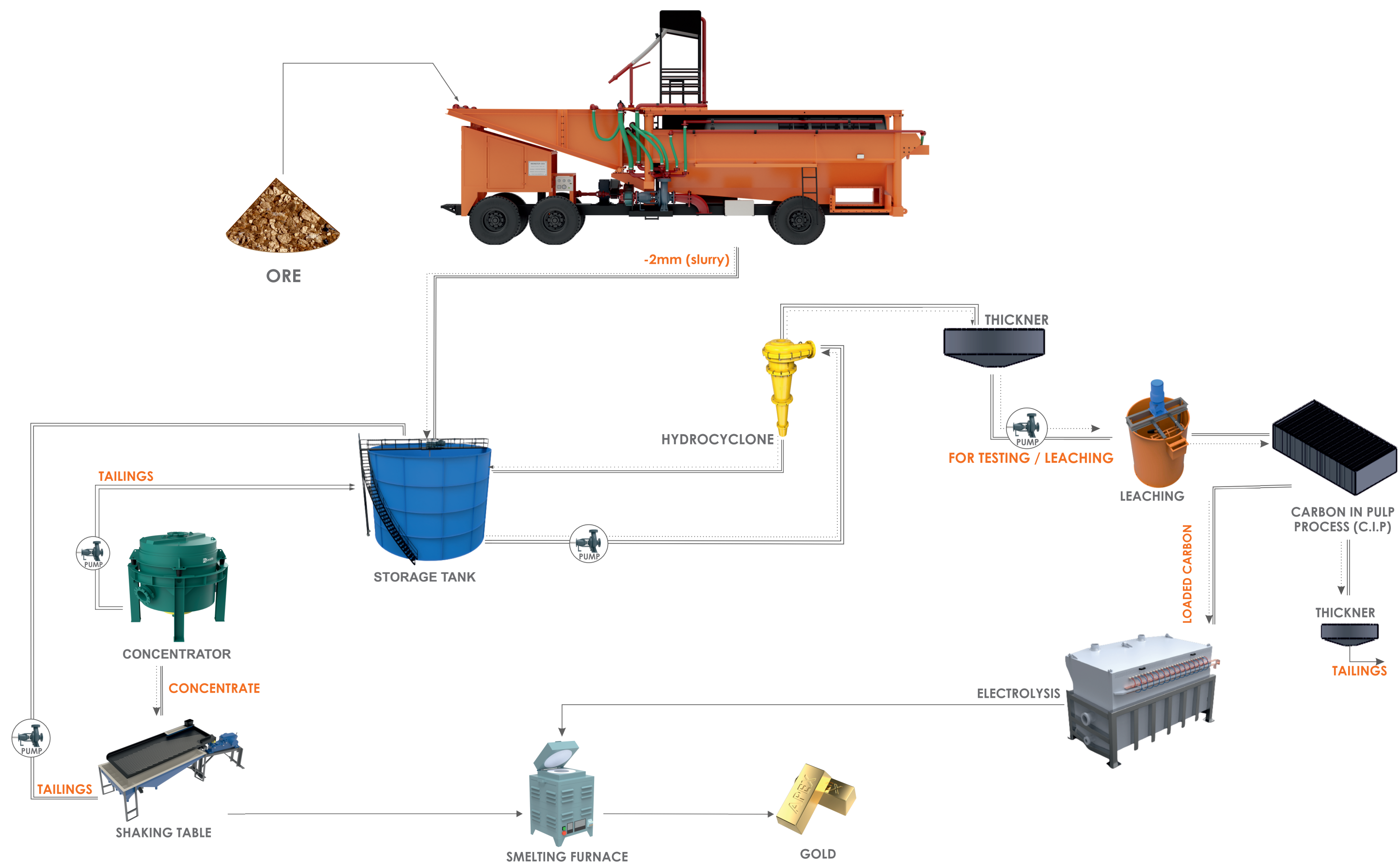
MODERATE RECOVERY PROCESS (60-80 TPH)



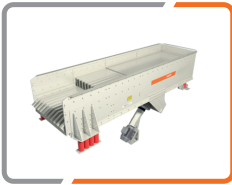
HIGH RECOVERY PROCESS (60-120 TPH)



HIGH RECOVERY PROCESS WITH CHEMICALS (80-120 TPH)



EQUIPMENTS FOR PROSPECTING SUCCESS

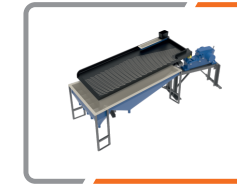


Vibrating Feeder:

These provide steady & controlled feed for downstream processing and are designed for both mobile as well as for stationary setups.



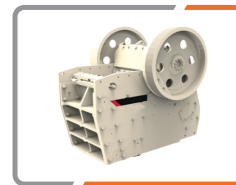
Vibrating Screens: These are designed to incorporate any type of screening size and media, both dry and wet.



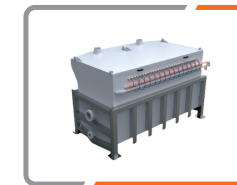
Shaking Table: These tables are designed and manufactured to efficiently separate free gold from other lighter minerals and sand.



Washing Plants: These reliable and rugged machines for washing slurry are the result of years of field experience and excellent engineering.



Jaw Crushers: These reliable and productive machines have been developed to crush the hardest ores & rocks with outstanding performance



Elution (Carbon desorption) and Electro winning setup: In this setup Gold desorption & Electro winning is carried out efficiently & effectively in the Elution column and the Electro winning cell.



Shaker Deck: This is a gold washing plant designed to trap maximum free gold in its belly. This machine is especially developed for small scale alluvial mining.



Hydro-cyclones: These are known for their efficiency, reliability, & performance in particle size classification, desliming & dewatering processes.



Floatation Machine: This machine is used for agitation and frothing, to reduce concentrate and gang material ratio for economical operations.



Steel tanks: Proper design, construction & safety protocols are maintained in erecting these tanks for convenient storage of slurry.



Concentrators: These are designed to achieve highest recovery of free gold through optimum circuit performance.



Gold Smelting Furnace: These smelting furnaces are capable for extracting & refining gold from ore at high temperatures while maintaining all safety protocols.



Ball Mills: These highly advanced machines are specifically engineered for wet grinding, are low in power consumption and require minimum maintenance.



Carbon in pulp (CIP): This equipment is designed and manufactured to extract all the dissolved gold on activated carbon by adsorption.

ABOUT US

Founded in 1996, Apex Gold Mining Solutions Pvt.Ltd. is a leader in providing customized solutions for Gold mining consulting and engineering services.

APEXGME designs, manufactures and supplies a large range (5 to 500 TPH) of extraction systems for gold mining operations, where each machine is precisely engineered to meet the highest industrial standards.



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Formerly known as

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