



Govt. of Chhattisgarh

Chhattisgarh Infotech Promotion Society

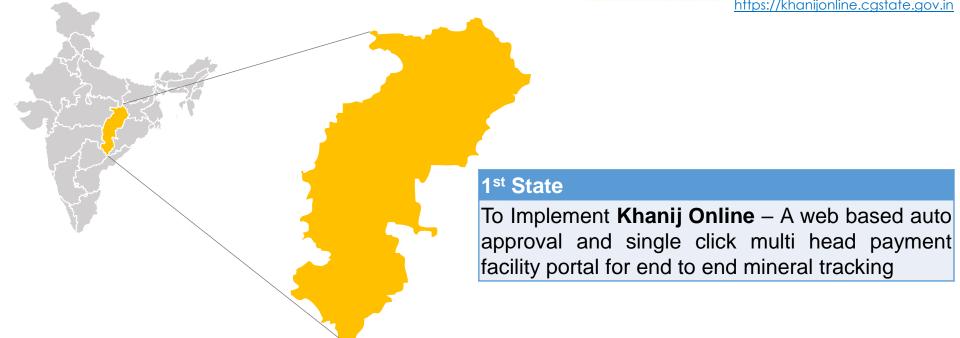


A web based Integrated Mines and Minerals Management System

Chhattisgarh: A Mineral Rich State







- ► Carved out from erstwhile state Madhya Pradesh on 1st Nov. 2000 as 26th state of the union.
 - ✓ Occupies ~4% of India's area (1.35 lakh Sq. Km.)
 - ✓ Holds ~7% of India's Forest area. (56 thousand Sq. Km.) & ~2% of India's population. (2.55 crores)
 - ✓ Encompasses almost 1/5th of resources of important core industrial minerals like Coal & Iron ore
 - ✓ Produces ~more than 16% of total value of minerals in India.
 - ✓ 3rd in India in terms of value of minerals produced
 - ✓ Mining sector contributes more than 10% of State's GVA

Mineral Resources Department: Core Activities





- Allocation/Grant of mineral concessions
- To ensure mining operation as per mining plan and Environment Clearance.
- Issuance of Transit Passes for mineral transit
- Assessment and collection of Royalty, DMF, NMET, Surface Rent, Dead Rent, TCS, CESS etc.
- Monitoring and control over mineral transit and unauthorized working
- Compilation, Analysis and Sharing of various data related with mineral production & dispatch

KHANIJ ONLINE: Manual Cumbersome Process





(देखिए नियम 29(6))

खनिज प्रेशन अभिवहन पारा/अभिवहन पास दुक जारी करने के लिए आवेदन

 घट्टेवार का नाग नेठ जेके सक्त्री सीगेंट लिए

यान मासपुरीसूर्य-स्थासाधीह सहक धम्या दिस्स दुर्ग (४०००)

3. राजिय यन स्रोत -

स्ट्रांन का स्थान एवं रक्तवा : रोमरिया, धिकुकिया, गंदनीरहंदनी

रक्या २६७ ६७५ थे०

4. रानिय का नाम भूनापत्थर (गुरुप सनिज)

रटाक में खनिक की मान्रा एवं प्रेशगा/

परिवरण किये जाने की प्रस्तावित माधा

 जस माध्रा के परिदान का मार्ग लाग द्वा चर्तमान में राजक मार्ग, द्रक द्वारा परिवरत

 प्रेशन पर प्रयोगन (स्वय एफ्लेन/विक्रम) : रचत के सीनेंट संबंध में प्रथमीन हेतू

विकास की मामले में रहरीय दार कर माम

य पता दिया जाना भारिए)

ह. रेल परिवासन को मानाले में :--

शदान का रहे 1न रेल द्वारा खनिया परिवान नहीं किया याधेना। रेल द्वारा कनिज परिवटन नहीं किया जोगा।

वाले का नाम एवं पते के साध

माल का गंतका, माल पाने

9. रानिज का विकय गुल्य अभिवयन पास में प्रतिवा वसकेता।

10. कालावधि, जिलाके मीतर आवेदक चक्त खनिज भौंग के अनुसार

बाध्य का प्रेशन/परिवदन करना बाहरा है

11, अन्य विकित्यों, जो आवेदक द तीना

पाहरत है

मैं/एम एसद हाल प्रमाणित करता हैं/करते हैं कि कपर भी गई विि विटार्म मेरे/हमारे अधिकतम जानकारी एवं वि वास अनुस

Ratio - 01706/17

खनिज रियाय

gara x 141346

1. WHEN HIM JKJakshm

खनिज का नाम तथा खेणी

आरंथिक अनुभाषत्र (रिकोनेसेन्समें)

पूर्वेश्वण अनुज्ञान्त/व्यक्तिपट्टाधारी

JKL

खानिन का निक्रय मृत्य......

बाह्न (केरियर) के स्वामी का नाम

TO THE REPORTED IN

करने बाले ध्यक्ति का नाम तथा हस्तावार

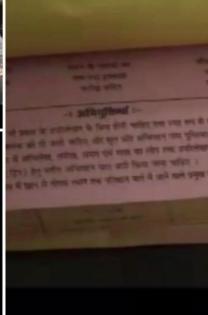
सारीच सहित











KHANIJ ONLINE: Key Challenges with Manual Process





For Department

- Issuance of physical Transit Passes in bulk quantity was impractical causing huge time, energy and manpower.
- ► Moreover, high possibility of it's misuse.
- ▶ Delay in assessment a main hurdle for factual and timely collection of revenue to the State exchequer.
- ► Complete absence of Real Time Statistics etc.
- ► Lack of Transparency of working amongst department and stakeholders.
- ► Lengthy approval process
- ► Timely resolution
- ► Manual data entry is inefficient, redundant and leads to error
- ▶ Document Storage

For Stakeholders

- ▶ Filing of exhaustive information's on different prescribed formats.
- ► Payment of Royalty, DMF, NMET etc in 07 different heads/accounts.
- Delay in getting operational permissions.
- ► Submission of voluminous records for assessment.
- ▶ Delay in timely assessment causes blockage of revenue.

For Public in general

- ▶ Negative perception over mining operation because of lack of Information & Transparency.
- ► Want of much needed **social license** for smooth mining operation.

To over come the challenges and facilitate ease in doing business, Department firmed up to go for ICT intervention.

KHANIJ ONLINE: At a Glance



A web based Integrated Mines and Minerals Management System for effective administration and regulation of mineral resources in the state of Chhattisgarh.

KHANIJ ONLINE being a web-based portal, empowers each registered Stakeholders [lessee, licensee, traders, End use `plant, vehicle owners, and transporters] including regulatory Govt. officials to act as a center of delivery.

End to End Tracking of Minerals 50 **Objectives** \ 8 8 8 **Ease of doing Business** ©-© L_∞ **Simplify Mineral Administration** Effective realization of Revenue & curb leakages

Launched on 21st June 2017

KHANIJ ONLINE

KHANIJ ONLINE: Highlights/ Spot light





1st

of its kind

A Web based Integrated Mines & Minerals Management System



SINGLE CLICK ONLINE PAYMENT of Royalty, DMF, NMET and transfer of amount in respective accounts/heads in T+1 DAY

REAL TIME ASSESSMENT with automatic generation of Demand/Credit note (e-Wallet)

KHANIJ ONLINE: Key Features







System generates Bar-coded e-Transit Passes

based on system verified validation & e-permit without any intervention of mining department

Handheld Device for **Effective Vigilance**

of Mineral Transportation by the virtue of e-Check post.

Robust

End to End tracking

It tracks mineral from end-to-end i.e. from source to destination
Effective control over diversion there by protecting rightful industries

KHANIJ ONLINE: Process Flow & Advantage

Clearances

- Mining Lease Deed
- Mining Plan & Environ. & SPCB Clearances
- Other Clearances

e-Permit

- Application for e-Permit with Mineral Grade & Quantity
- Single click payment for Royalty, DMF, NMET & CESS etc.

e-Transit Pass

- Self generation at dispatch point
- Only Registered Vehicle and users can take load
- Different transportation modes

e.g., Road, Rail, Road-Rail, Conveyor belt, Ropeway, Slurry Pipe, MGR

Surveillance

- **Integrated Check Post**
- **Surveillance** Using Handheld Device
 - GPS Tracking

Verification

- Check Gate
- En Route
- Surveillance



Trip Closure

- **End Use Plant**
- Storage

KHANIJ ONLINE: Digital Library



Shri Neeraj Akhoury

MD & CEO

Cement House, 121, Maharshi Karve Road Mumbai 400020

Mobile Number: 7225026281

C B S A

Lessee Application Details Name: ACC Jamul- Area: 269.95 (jamul dhor, kurud)

Type: ML, Mine Code: 5101000604

Address: PO: J C Works, ACC limited, Dis ...

Application Type: Without Auction

& (A)(S)(M)(K)(F)(G)(R)(M)

Mineral Information Mineral Name: Limestone

Mineral Category: Major Mineral Minable Reserve: 82060000 Estimated Reserve: 82060000

Forest Clearence Details

Approval Date:

Validity:NO VALIDITY FOUND



Consent to Operate Details

Approval Date: 02/01/2019

Validity: 20/12/2018 to 19/12/2019



Grant Order & Lease Deed Details

Order No: F 3-8/2001/12, Raipur

Order Date: 06/05/2002 Lease Deed No.: 0

Lease Deed Date: 06/05/2004

Lease Validity: 04/05/2000 to 31/03/2030





IBM Registration Date: 20/06/2017 IBM Mine Code: 38MPR13001



Environment Clearance Details

Approval Date: 14/08/2018 Approved Quantity: 3000000

Validity: 14/08/2018 to 31/03/2030



Assessment Report

Revenue Recovery Assessment Date:

Half Year Assesment Date:



Lease Information Details

Mining Plan Details

Consent to Establish Details

Payment Details

Profile

Lessee Details **Application Details Grant Order Details** Lease Area Details **Mineral Information IBM Details** Mining Plan Forest Clearance **Environment Clearance** Consent to Establish

Assessment Report



MODEL FORM OF MINING LEASE

THIS INDENTURE made this 2nd day of Au &2016 between the Governor of

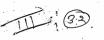
. Chhattisgarh/the President of India (hereinafter referred to as the 'State Government' expression shall where the context so admits be deemed to include the successors and assigns)

Execution of Deed Copy

636364957331744022_1_PDF.pdf



FORM K MODEL FORM OF MINING LEASE



MODEL FORM OF MINING LEASE

(See rule 31)

THIS INDENTURE made this 2014 day of Ab 2 2016 between the Governor

. Chhattisgarh/the President of India (hereinafter referred to as the 'State Government' which expression shall where the context so admits be deemed to include the successors and assigns) of the one part and

Not Applicable (Name of person with address and occupation) (hereinafter referred to as "the lessee" which expression shall where the context so admits be deemed to include his heirs, executors, administrators, representatives and permitted



Status:

Working

Village: Jamul District: Durg

Type Of Land:

® (D) (W)

Area (Hect): 269.950

State: Chhattisgarh | Pin Code:

Date Of Agreement: 04/05/2000

Appro- Date: 20/10/2015

Approval Date: 02/01/2019

Validity: 08/10/2018 to 07/10/2023

Validity: 01/04/2015 to 32/2020

Paid Royalty 244000000.00 73200000.00 NMET 4880000.00 TCS 4880000.00 Infrastructure & Development Cess 22875000.00 22875000.00 Environmental Cess



KHANIJ ONLINE: Advantages



Manual Process

- Time Taking Process
- Dependency

4 to 5 Days



Manual Permit (Issuance of Transit Pass Book)



Separate payment of Royalty, DMF, NMET, TCS and Cess

on different banks/heads



Physical Application to District Mining Office



Physical verification of statutory compliances/validity

By DD/MO of district mining office

1Mineral Transit Permit

Online Process

- Easy Process
- Auto Approval

4 to 5 Mins



e-Permit Generation





- Mineral Name
- Mineral Grade
- Quantity





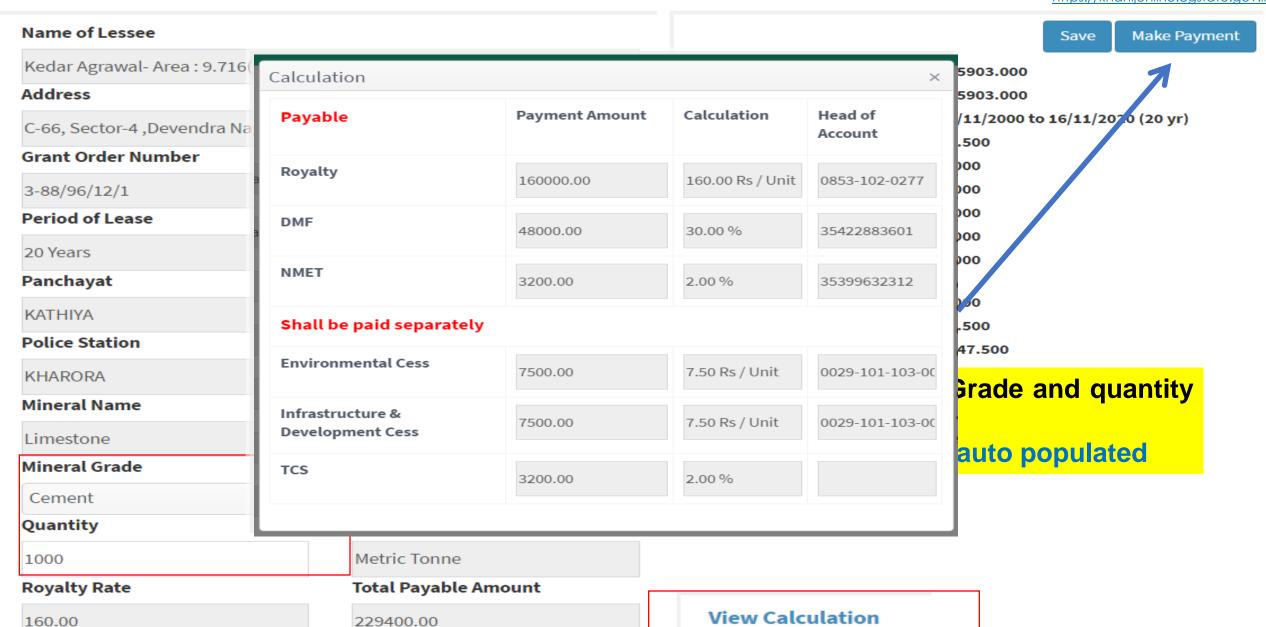


& e-PERMIT Generated

KHANIJ ONLINE: e-Permit Process





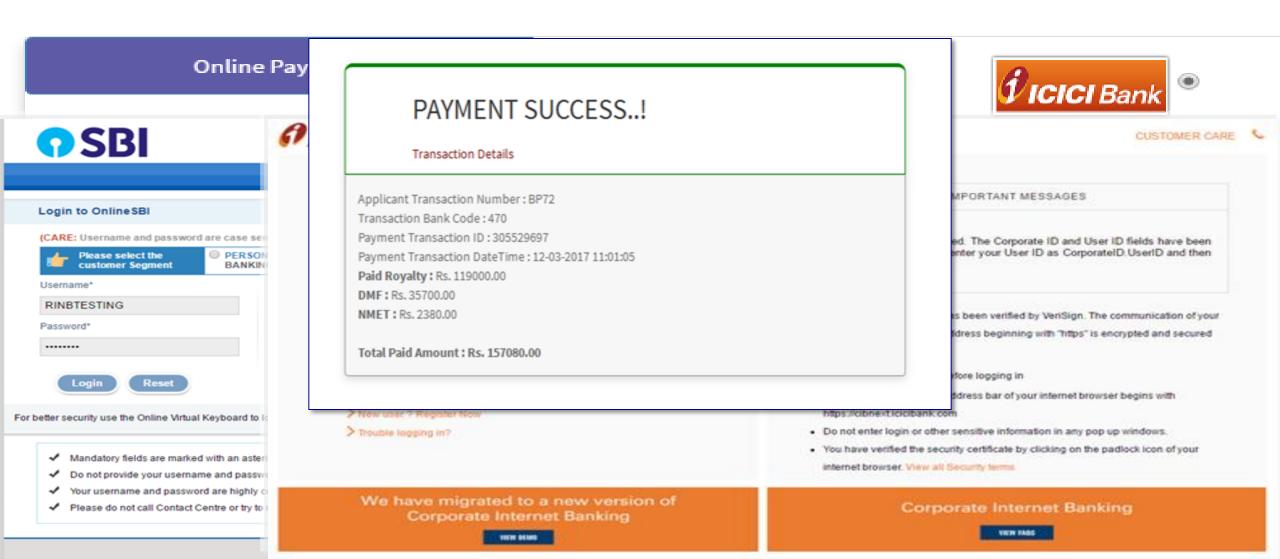


KHANIJ ONLINE: e-Permit Process





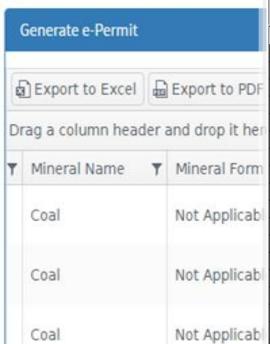
Payment Mode



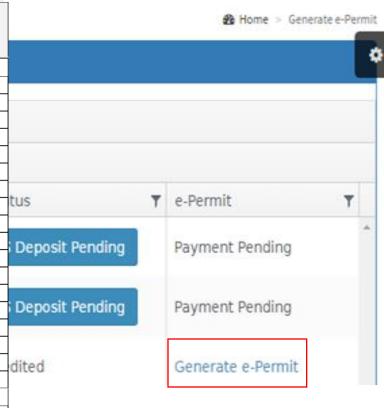
KHANIJ ONLINE: e-Permit Generation



Generate e-Permit



Con the state of t		SOURCES DEPARTMENT NMENT OF CHHATTISGARH	
· ·	a. Parmit fr	(Raipur District) or Limestone	
1	Transactional ID	TRN_ID_0000001	
2	Name of Lessee/Licensee	Kedar Agrawal- Area : 9.716(pathrakundi)	
3	Address of Lessee/Licensee	C-66, Sector-4 , Devendra Nagar Raipur (C.G.)	
4	Grant Order Number	3-88/96/12/1	
5	Grant Order Date	11-10-2000	
6	Period of Lease/License	20 Years	
7	Lease/License Information:		
	1) Village	PATHRAKUNDI	tus
	2) Tehsil	Tilda	
	3) Panchayat	KATHIYA	Day
	4) Police Station	KHARORA	De
	5) District	Raipur	
8	Mineral Name	Limestone	
9	Mineral Form	Not Applicable	De
10	Mineral Grade	Cement	
11	Quantity to be Dispatched	5.00	
12	Mineral Unit	Metric Tonne	dite
13	Royalty Rate	80.00	- Girco
	Total Online	Paid Amount	
15	Royalty	Rs. 400.00	
16	DMF	Rs. 120.00	
17	NMET	Rs. 8.00	
18	Total Online Paid Amount	Rs. 528.00	
	Shall be pa	id separately	
19	Environmental Cess	Rs. 37.50	
20	Infrastructure & Development Cess	Rs. 37.50	
21	TCS	Rs. 8.00	
22	Total	Rs. 83.00	
	User In	formation	
23	Generated By :	Kedar Agrawal- Area : 9.716(pathrakundi)	
24	Designation :	Lessee	
25	Generated Date and Time :	02-06-2017 01:47:27 PM	



KHANIJ ONLINE: Advantages

Manual Process

Chances of Diversion

Difficulty in Tracking



No Buyer Selection

No Tagging of Buyer/Purchaser with transit permit

Manual entry of Buyer/Purchaser

By Mines Owner/ Lessee

2Buyer
Selection



Online Process

No Chance of Diversion

End to End Tracking



Buyer Selection



Tag Multiple Buyer with e-Permit (Industry / Stockiest)

Lessee will apply online;



Tag Transportation Mode

- · Road
- · Road Rail
- · Inside Railway Siding
- · Conveyor Belt
- Ropeway
- · EUP
- · MGR / Own Wagon

KHANIJ ONLINE: Advantages



Manual Process

- Waiting for transit pass book
- Dependency

4 to 5 Mins.



Manual Transit Pass

All Details filled by dispatch operator

Possibility of Human Error

Overwriting Deliberate Misuse of TP

Mineral Transit Pass

Online Process

- Self Generation
- · No Dependency

30 sec. to 1



e-Transit Pass Generation



Entry of Mineral Weight & Vehicle Selection

e- Transit Pass Generated

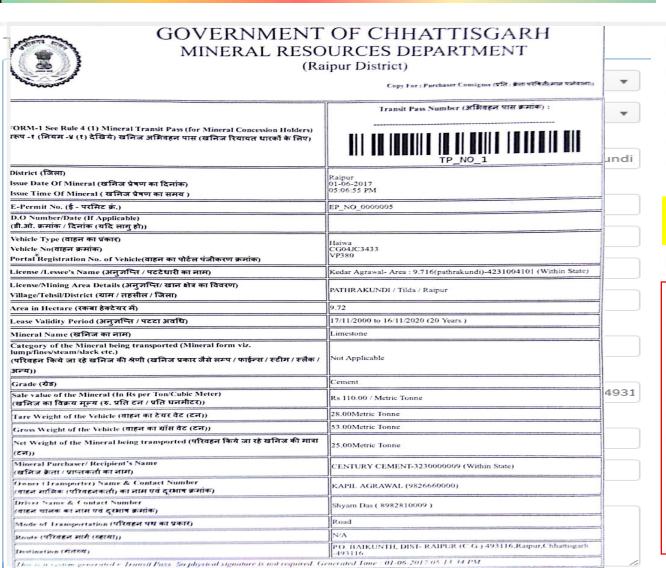


All vehicle owners & Vehicles are pre registered in KHANIJ Pass ONLINE

KHANIJ ONLINE: e-Transit Pass Process







	•	
District (जिला)	Raipur	
Tehsil/Forest Division	Tilda	
(तहसील / वन प्रभाग)		
Village (गाँव)	PATHRAKUNDI	
Lease Validity From	17-11-2000	
(बैधता पट्टे से)		
Mineral (खनिज)	Limestone	
User needs to fill bel	ow information on	ly -
Vehicle Number (बाहन नंबर) *	CG04JD1601	
Vehicle Type (बाहन प्रकार)	Haiwa	
Driver Name	Ram Singh	
(वाहन चालक का नाम)	A	
Driver Contact Number	9338221221	
(बाहन चालक का संपर्क नंबर)		
Tare Weight(Ton/Cubic Meter)	11	
(टेयर बेट(टन / घन मीटर)) *	71	
Gross Weight(Ton/Cubic Meter)	27	
(बॉस वेट(टन / घन मीटर)) *		
Net Weight(Ton/Cubic Meter)	16.00	

Generate E-Transit Pass

(नेट वेट(टन / घन मीटर))

KHANIJ ONLINE: Advantages





Manual Process

7 to 10 Mins



Manual Verification

All Details filled by check post operator in check post register

Possibility of Human Error and Time taking Process 4
Verification of
Mineral
Transit Pass

Online Process

30 sec. to 1 Mins.



Mineral Verification @ Check Post



Online Verification of e-Transit Pass by Barcode Reader

All Details Fetched

Easy Operation and Less Time Consuming

KHANIJ ONLINE: e-Transit Pass Verification



Can be identified whether original or fake

If connected to network, can be cross checked with the database

Verification at Checkpost using Barcode Reader

En-route checking using Handheld Device

Toll Free No. 1800 233 3767 to get the pass details



110.00Metric Tonne

Sale value of the Mineral (In Rs per Ton/Cubic Meter) (खनिज का विक्रय सूरुय (रु. प्रति उत्त / प्रति प्रतसीटर)) Tare Weight of the Vehicle (वाहुत का वेयर वेद (उत्त))

KHANIJ ONLINE: Advantages



Manual Process

7 to 10 Mins



Manual Verification

All Details entered to receive the mineral

In Mineral Receiving Register

Time Consuming

Chances of Manipulation

5Trip Close
Operation

Online Process

30 sec. to 1 Mins



Trip Closure @ Licensee / End Use Plant

All Details Fetched

Only Update Mineral Qty. Received

Easy Operation and Less Time Consuming

No chances of manipulation

KHANIJ ONLINE: Simplifiers to the challenges





Business Process



Challenge



Business Process Reengineered

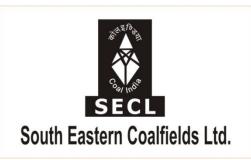


- Transit Pass
- Revenue Assessment
- Statistical Data
- Transparency
- Payments
- Operational Permission
- Perception
- Social license
- Time Consuming, Duplication
- Manual and Delayed
- Time Consuming
- Physical File for approval
- Royalty, DMF, NMET etc in 07 different heads/accounts
- Delayed and Manual
- Negative due to lack of Information & Transparency.
- Smooth Mining Operation
- System Generated, Secured with Barcode
- Real time system driven
- Dashboard available on fingertips
- System driven Workflow
- SINGLE CLICK ONLINE PAYMENT
- AUTO APPROVAL using digital signature
- System driven operations eliminated physical approach
- Better perception has paved way

KHANIJ ONLINE: Key Stakeholders





































KHANIJ ONLINE: Achievement





Silver Award

Excellence in Government Process Re-engir

Khanij Online

Mineral Resources Department, Government

Khanij Online as a web-based portal empow traders, End user industry, vehicle owners, and Centre of Delivery. The core objective of this pro of mines and minerals system in the State. Key features of the project are:

- Online auto-approval for all daily dischall Certificate.
- Online control on mineral production an environment clearance figures.
- Single Click online payment for Royalty, D
- Real-time Assessment with e-wallet facility
- Online registration for truck Transporter ar

Beneficiary of the project: Each individual/co vehicle owner or transporter etc. whoever is rela and minerals in the State of Chhattisgarh as we

CONTACT DETAILS

Secretary, Mineral Resources
Department, Mantralaya, Mahanadi
Bhawan, Atal Nagar, Raipur,
Chhattisgarh 492002
Mobile: 9425250151
email id:
subodh2001@hotmail.com





KHANIJ ONLINE: Achievement





KHANIJ ONLINE: Visitors - Republic of Kenya







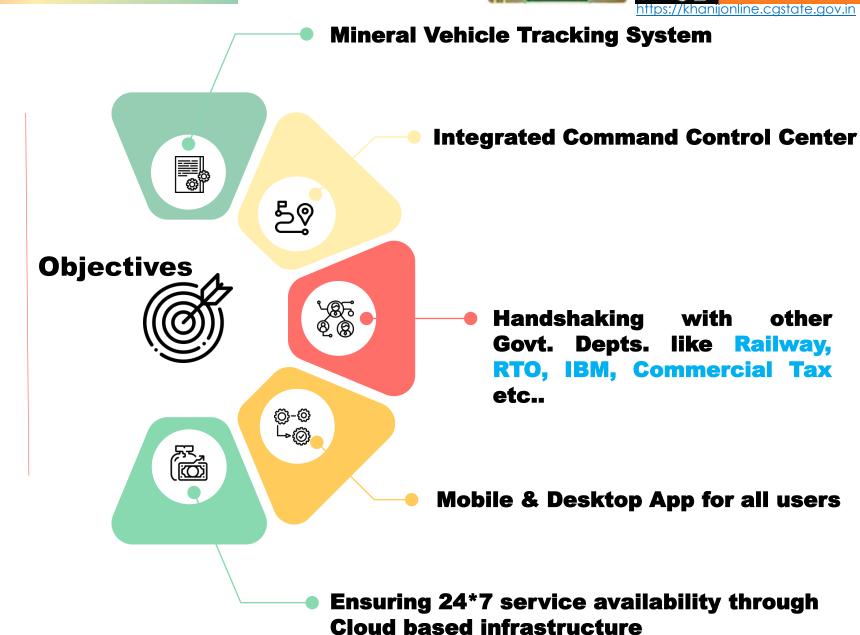
KHANIJ ONLINE: Visitors - Meghalaya, India











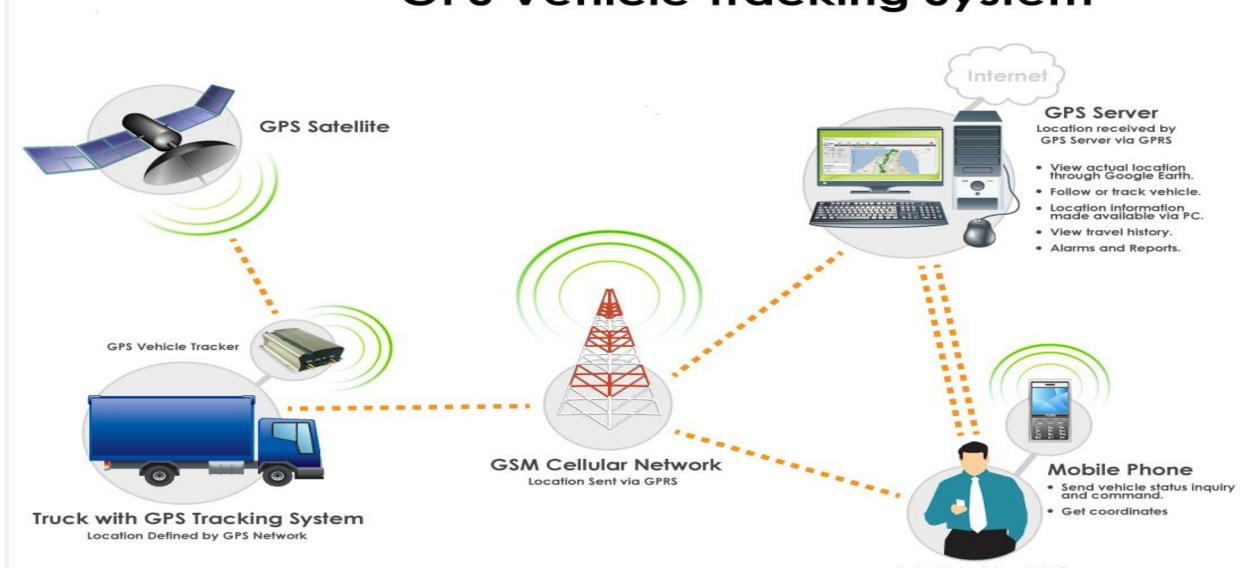




Khanij Online 2.0: Vehicle Tracking System



GPS Vehicle Tracking System



Get vehicle status via SMS

Khanij Online 2.0: Integrated Command Control Centre







ONBOARD

Lessee

Licensee

164

Major Stakeholders

203

Major Stakeholders

3,597

End Use Plants Registered

34,484 75,093

Vehicles Registered

Vehicle Owners Registered

Digital Library

Go Live - 21.06.2017

TRANSACTION STATUS

10,000+ E-Permit Generated 1 million+ e-Transit Pass

200+ million tonne Mineral Transported

Revenue in cr.



Vehicles

