STATE REVIEWS



Indian Minerals Yearbook 2020

(Part-I)

59th Edition

STATE REVIEWS (Uttar Pradesh)

(ADVANCE RELEASE)

GOVERNMENT OF INDIA MINISTRY OF MINES INDIAN BUREAU OF MINES

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UTTAR PRADESH

Mineral Resources

The State is the principal holder of country's andalusite & diaspore resources and possesses 78% andalusite, 37% diaspore, 17% sillimanite and 10% pyrophyllite. Important minerals occurring in the State are: **coal** in Singrauli coalfields, Sonbhadra district; and **diaspore & pyrophyllite** in Hamirpur, Jhansi, Lalitpur and Mahoba districts. Naini area of Allahabad district has good resources of high quality **silica sand**, an important source of glass sand, that contains 98% SiO₂ and a very low Fe₂O₃. It is found at Shankargarh and Lohargarh in Allahabad district and also Bargarh in Banda district. Silica sand is also found in Aligarh and Chitrakoot districts.

Other minerals that occur in the State are andalusite & calcite in Mirzapur district; bauxite in Banda, Varanasi & Lalitpur districts; china clay & dolomite in Banda and Sonbhadra districts; felspar in Jhansi district; fireclay, limestone, potash & sillimanite in Sonbhadra district; ochre in Banda district; granite in Banda, Hamirpur, Lalitpur & Mahoba districts; iron ore (haematite) and rock **phosphate** in Lalitpur district (Table -1). The reserves/resources of coal along with details of coalfield are provided in Table-2.

Exploration & Development

During 2019-20, National Oil Companies (NOC) continued their operations for exploration of oil and gas in the State. GSI also carried out exploration in Sonbhadra & Lalitpur districts. The details of exploration carried out by GSI in the State are furnished in Table-3.

Production

Coal, limestone and sulphur were the mineral items produced in Uttar Pradesh during 2019-20.

The value of minor minerals' production was estimated at ₹5,614 crore for the year 2019-20.

The number of reporting mines in Uttar Pradesh was 2 in 2019-20 in case of MCDR minerals (Table-4).

Mineral-based Industry

The present status of each mineral-based industry is not readily available. However, the important mineral-based industries in the Organised Sector in the State are furnished in Table - 5.

Table -2 : Reserves/Resources of Coal as on 1.4.2020 : Uttar Pradesh

				(In million tonnes)
Coalfield	Proved	Indicated	Inferred	Total
Total/Singrauli	884.04	177.76	_	1061.80

Source: Coal Directory of India, 2019-20.

				Reserves	es					Remaining	Remaining Resources				Loto Loto
310.11 STD121 STD21	Mineral	Unit	Proved	Prob	able	Total	Feasibility	Pre-fea	ısibility	Measured	Indicated	Inferred	Reconnais	sance Total	resources
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r''tome:::<	$Dolomite^{\#}$	'000 tonnes	I	·	ı	ı	ı	12622		3500	I	66230	'	82352	82352
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Table -1: Reserves/Resources of Minerals as on 1.4.2015: Uttar Pradesh

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Figures rounded off. # Declared as Minor Minerals vide Gazette Notification dated 10.02.2015 ## Minor Mineral before Gazette Notification dated 10.02.2015

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Agency/	Location	Мар	ping	Dri	illing	G 1'	Remarks
Mineral/ District	Area/ Block	Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
GSI Iron Ore Sonbhadra	Block 'B' Bharhari area	1:4000	(sq km) 2.0	4	461.30	187	Preliminary exploration (G3) was carried out in this area for iron ore. An area of 2.0 sq km was mapped on 1:4000 scale. The banded haematite chert/ jasper band was observed as a continuous band at the hill top with a strike length of 3.12 km and exposed width of 9 m to 54 m. A total of 461.30 m of drilling were carried out in four bore- holes and 187 core samples were sent for chemical analysis during the study of the area. There were five mineralised zones with a cu- mulative thickness of 32.75 m for 30% Fe cut off and five zones for 35% Fe cut off. The average grade of the Fe at 30% cut off was 35.02% as reported in one bore- hole. The available 24 analytical results of BH-2 suggest Fe% with
REE Sonbhadra	Mahuria- Domardiha area	-	_	-	-	13	a minimum of 9.55% and maxi mum of 39.26%. Reconnaissance survey (G4) fo REE-RM mineralisation was taken up in this area. Results of the 04 soil samples used in orientation survey yielded an average REF value of 343 ppm and 350 ppm for -80 and -100 fractions, re spectively with average REF value for -120 fractions being 271 ppm. Analytical results o 9 bed-rock samples yielded REE values >800 ppm. The highest value was recorded from a micaceous schist hosted by K-feldspar granite gneiss from Rannu area. A leucogranite body with REE of 1,475 ppm exhibited good enrichment in HREEs. Besides this, high value were observed from K-feldspar granite gneisses.

Table –3 : Details of Exploration Activities in Uttar Pradesh, 2019-20

(contd)

Table – 3 (contd)

Agency/	Location	Map	ping	Dri	lling	~	Remarks
Mineral/ District	Area/ Block	Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
Sonbhadra	Nawatola Laband			06	500.85	183	Preliminary exploration (G3) was carried out in this area for REE mineralisation which involved drilling of 500.85 m, pitting/ trenching of 84 cu. m and col- lection of 50 channel samples, 83 pit-trench samples and 50 soil samples. A total of 6 scout boreholes were drilled based on the channel/trench samples with REE >900 ppm. Strike length of enriched REE zone is 1.5 km with an average width of 400 m. This zone was de- marcated based on relatively higher concentration of REE in surface samples, i.e., 500 ppm. Also, maximum REE concentra- tion in soil sample yielded up to 2,729 ppm. In Borehole-1, weighted average grade of REE+Y was recorded at 1,065.69 ppm for a total thick- ness of 23.50 m. In Borehole-2, weighted average grade of REE was recorded at 992.2 ppm for total thickness of 10.50 m and in Borehole-3, weighted average grade of REE varied from 973.5 to 1,272.8 ppm with weighted average of 1,064.9 ppm for total thickness of 13.50 m.
i iutiium o	roup of Metals (
Lalitpur	Gidwaha Girar pahar area	1:12500	100	-	-	-	Reconnaissance survey (G4) for PGE mineralisation in this area involved mapping of 100.0 sq. km area on 1:12500 scale. Analytical result of Pt & Pc showed values <5 and <10 ppb, respectively. Two channel samples of ultramafic rock col- lected from Village Bhikampur showed Pt values of 10.7 ppb & 10.5 ppb and Pd values of 6.3 & 5.7 ppb, respectively. Analytical results for base metal showed value of Cr & Ni ranging from 17 to 4,722 ppm & 3 to 2,325 ppm, respectively. (contd)

Tabl	le - 3	8 (co1	ntd)
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Agency/	Location	Map	pping	Dri	lling	a 1'	Remarks
Mineral/ District	Area/ Block	Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
							On integration of exploration data it was found that the ultramafic body mapped at Village Bhikampur extend for a strike length of about 1 km with width of about 125 m and showed highest value of chromium (2,050-4,722 ppm) and moderate anomaly of nickel (627-1,525 ppm).
Gold							
Sonbhadra	Dala- Roopadandi area	-	-	-	-	_	Reconnaissance survey was taken up to locate placer gold and diamond in the study area. Conglomerate body was traced from Dala to Roopadandi, the strike length of the conglomerate was approximately 13 km and width of the body varied from 10-20 m. The conglomerate body traced in Hardi area showed a width of 30-70 m with approximately 4.5 km strike length. As per the available chemical results, gold values were recorded at <50 ppb and base metal & other elements showed low values while Mn showed values between 06 and 2,884 ppm.
Diamond							
Banda	-	-	-	-	-	101	Reconnaissance survey of Kimberlite/Lamproite and second- ary diamonds in Shahpur Block in parts of Panna and Satna districts, Madhya Pradesh and Banda Dis- trict of Uttar Pradesh (G4) was carried out. About 101 regional and detailed stream sediment samples were collected from appropriate trap sites, such as, older alluvium, bedrock ob- struction, joint crevasses, gravel layers in vertically cut river sections, manually dug pits in gravel and sand bed, channel floor, channel bar, point bar, uneven rocky floor, root trapping etc. Heavy Min- eral Concentrates (HMC) was ex- amined for kimberlite indicator (contd)

Table – 3 (contd)

Agency/	Location	Maj	oping	Dri	lling	~	
Mineral/ District	Area/ Block	Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
							minerals (Picro ilmenite, Pyrope garnet, Cr-spinel and micro dia- monds) under stereo microscope. Through HMS, a few suspected Kimberlite indicating Minerals including garnets, spinels, chromites and ilmenites were identified which were yet to be confirmed through EPMA. Dur- ing the search of diamond source rock, two ultramafic dykes were reported from Gudha Kalan. On the basis of petrological and geochemical studies, the altered ultramafic rocks showed affinity towards lamprophyres. These dykes vary in dimension from 2-4 m in length and 15-20 cm in width. They were seen intruded within coarse-grained porphyritic granite. The detailed petrographic study of the ultramafic rock de- picted presence of pyroxene porpyroclasts, some pseudomorph of olivine/pyroxene altered to talc/ actinolite in a fine groundmass of alkali glass, pyroxene and amphib- ole. Mineral chemistry plots showed close affinity towards lamproites. Geochemical plots showed sub-alkaline-calc-alkaline magmatic affinity and lamprophyric nature.

Agency/ Mineral/	Location	Map	ping	Dri	lling	S	Remarks
District	Area/ Block	Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
Directorate of	of Geology and N	Mining, Utt	ar Prade	sh			
Iron Ore Lalitpur	Solda Uldana area	1:5000	1.0	-	-	310	During 2019-20, reconnaitery exploration for iron ore was taken up to prove iron ore deposit in this area. About 1.00 sq.km of area was mapped on 1:5000 scale and 104.5 cu. m material was excavated in 6 pits. A total 310 samples were collected, i.e., 208 grid samples, 70 pit samples for chemical analysis and 32 grid surface samples for petrological study.
Gold Sonbhadra (Western Bloc	Hardi area ck)	1:2000	-	-	-		DGM has continued exploration work in this area with an objective to search for gold deposit in Hardi area. Detailed investigation of eastern block showed a gold deposit extending over a strike length of 1.2 km with average width and depth of 15.5 m and 18 m, respectively. The average grade of the ore was 0.30 ppm. The exploration carried out in Hardi area (western block) comprised of geological mapping of 0.1 sq.km area on 1:2000 scale, excavation of 50 cu. m through 2 trenches each of dimension 25 m x 1 m x 1 m, and collection of 40 chemical samples for chemical analysis. In Berwar area, Lalitpur district, search for placer gold was continued by geological mapping of 0.3 sq.km on 1:2000 scale alongwith geophysical magnetic survey of 0.16 sq km . About 88 cu. m material was excavated in three
							trenches and a pitting of dimension 1 m x 1 m x 1 m was also carried out in the area and 103 samples were collected for analysis. An average grade of 0.16 g/t Au was recorded based on chemical analysis received so far.

Table – 3 (concld)

Agency/	Location	Mapp	oing	Dri	lling	G 1:	Remarks
Mineral/ District	Area/ Block	Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
Directorate	of Geology & Min	ing, Uttar I	Pradesh				
Dimensiona	al Granite						
Lalitpur	Madawara & Talbehat	1:50000	50.00	-	-	06	Diffrrent varieties of dmensional granite in six new blocks aggregat- ing an area of 20.08 hect. were identied. Samples of differrent sizes were collected for evaluation of quality, cutting /polishing etc.
Baryte							
Lalitpur	Mathara Dang (Bar-Larwari) area	1:12500	60.00	-	-	74	During G4 stage reconnaissance survey, trenching & pitting (2 each) of 28 cu m was carried out alongwith collection of samples. The chemical analysis showed the presence of baryte and base met- als.
Rock phosp	ohate						
Lalitpur	Semarkhera, Tori, Pisnari & Sonrai	1:1000	0.5	1	96.05	281	A G2 stage study was carried out to assess resources of rock phos- phate in the area. The total strike length of the phosphatic sediments is about 7.5 km from Semarkhera in the east upto Sonrai in the west.Three trenches were excavated and collected 186 samples.
Rock phos	sphate						
Lalitpur	Pipariya, Ikauna area	1:12,500	20	-	-	20	The study is continued. Explo- ration work was taken up in search of PGE in around Pipariya, Ikauna area, Lalitpur district. The ultramafic/mafic rocks of Madaura-Ikauna-Pindar tract is the eastern extension of Madaura ultrabasic complex. A series of ultramafic rocks are randomly exposed as lensoidal intrusive discrete bodies in the form of isolated outcrops into the granite-gneisses around 20 km streched in Madaura- Ikauna-Pindar tract. The explo- ration work involved mapping of 20 sq km area on 1:12,500 scale, excavation of 167 cm m material in 4 trenches and collection of 16 samples.

Table – 3 (contd)

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Table – 4: Mineral Production in Uttar Pradesh, 2017-18 to 2019-20 (Excluding Atomic Minerals)

			2017-1	8		2018-	19		2019-2	20 (P)
Mineral	Unit	No. of mines	Qty	Value ^s	No. of mines	Qty	Value	No. of mines	Qty	Value ^s
All Minerals		2		56914337	2		56988986	2		56893975
Coal	'000t	-	18309	-	-	20275	-	-	18030	-
Limestone	'000t	2	2399	773776	2	2622	848425	2	2806	753414
Sulphur [#]	t	-	47691	-	-	51738	-	-	47955	-
Minor Minerals @		-	-	56140561	-	-	56140561	-	-	56140561

Note: The number of mines excludes Fuel and Minor minerals.

\$ Excluding the value of Fuel minerals.

Recovered as by-product from oil refinery.

@ Figures for earlier years have been repeated as estimates because of non-receipt of data.

Table-5: Principal Mineral-based Industries

Table - 5 (contd)

(Value in '000)

 Industry/plant	Capacity	Industry/plant	Capacity ('000 tpy)
Abrasives	('000 tpy)	Jaypee Cement, Tanda, Ayodhya, Distt Faizabad (G)	1000
	NA		1500
John Oakey and Mohan Ltd, Ghaziabad	0.08	Jaypee Cement, Churk Mirzapur (G)	1500
Micro Lapping Abrasive, Near Munni Devi Temple, Seohra, Dhampur (Abr	asive powder)	Birla Corp. Ltd.(Erstwhile Reliance Cement,) Kundanganj, Distt Raebareli	2000
		UltraTech Cement, Dadri (G)	1300
Aluminium		UltraTech Cement, Aligarh (G)	1300
,	700 (alumina) 5 (aluminium)	UltraTech Cement Ltd. Ayodhya, Ambekar Nagar	1000
Asbestos Product		UltraTech Cement Ltd. Bara , Allahabad	4000
Asbestos Cement Ltd, Raibareli Uttar Pradesh Asbestos Product Ltd,	NA NA	UltraTech Cement Ltd. Dallakolta, Robertsonganj	500
Mohanlalganj, Lucknow		Mangalam Cement, Aligarh (G)	750
Cement ACC Ltd, Tikaria, Distt Sultanpur (G)	3000	Electrode	
Ambuja Cement, Dadri, Gautam Budh Nagar (G	i) 1800		ectrode no 10) electrode no 8)
	1200	Fertilizer	
Raebareli Cement Works, Birla Corporation (G) 1300	Asian Fertilizers Ltd, Deokahia, Gorakhpur	66 (SSP)
Heidelberg Cement (Diamond Cement), Mador Jhansi (G)	a 2700	Coromandel International Ltd (Formerly Liberty Phosphate Ltd), Raebareli	132 (SSP)
Jaypee Cement, Sadvakhurd (Blending Unit)	600	Jubilant Agri and Consumer Products Ltd (Formerly Vam Organic Chemicsls Ltd),	165 (SSP)
Kanodia Cement, Bulandsahar	330	Bhartiagram, Gajraula	
Shree Cement, Sikandarabad (G), Bulandsahar	2000	IFFCO, Phulpur (Unit I & II), Distt Allahabad	1697.8 (Urea)
(_),		IFFCO, Aonla (Unit I & II)	1999.8 (Urea)
The KCP Ltd., Dalla Cement Factory, Dalla Distt Sonabhadra	500	Indo Gulf Fertilizer Ltd (a unit of Aditya Birla Nuva Ltd), Jagdishpur	1105.5 (Urea)
Jaypee Cement, Chunar Cement Factory, Chunar, Distt Mirzapur (G)	2500	Kanpur Fertilizer & Cement, (formerly Duncan India Ltd), Kanpur	722 (Urea)
· 1 · · /	(contd)		(contd)

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Table -	5 ((contd)
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Industry/plant	Capacity ('000 tpy)
Khaitan Chemicals & Fertilizers Ltd,	132 (SSP)
Goramachhia, Jhansi.	52.8 (H ₂ SO ₄)
Khaitan Chemicals & Fertilizers Ltd, Malwan,	115 (SSP)
Fatehpur.	52.8 (H ₂ SO ₄)
KRIBHCO Shyam Fertilizer, Piprola Shahajahanpur.	864.6 (Urea)
Madan Madhav Fertilizers & Chems Pvt. Ltd, Fetehgarh.	24 (SSP)
Natraj Organics Ltd, Muzaffarnagar.	60 (SSP)
Tata Chemicals Ltd, Babrala, Distt Badaun.	1155 (Urea)
V. K. Phosphates Ltd, Bartara , Shahjahanpur	33 (SSP)
Natraj Organics Ltd, Muzaffarnagar.	60 (SSP)
Tata Chemicals Ltd, Babrala, Distt Badaun.	1155 (Urea)
V. K. Phosphates Ltd, Bartara , Shahjahanpur	33 (SSP)
	(Contd)

Industry/plant	Capacity ('000 tpy)
Ferroalloys	
Hindustan Ferro Alloys, Hamirpur.	3.2
The India Thermit Corpn. Ltd, Kanpur.	0.3
Iron & Steel	
Malvika Steel Ltd, Jagdishpur.	511 (pig iron) 600 (saleable steel)
Sponge Iron	
RLJ Concast Pvt.Ltd, Baragaon Chunar	60
S. A.Iron & Alloy Pvt.Ltd.Jeewanthpur, Mughalsarai	90
Petroleum Refinery	
IOCL, Mathura.	8000
(G); Grinding Unit	

Note: Data, not readily available for fertilizer and cement Industries on respective websites, is taken from Indian Fertilizer Scenario, FAI Statistics, and Survey of Cement Industry & Directory, respectively.