DISTRICT SURVEY REPORT

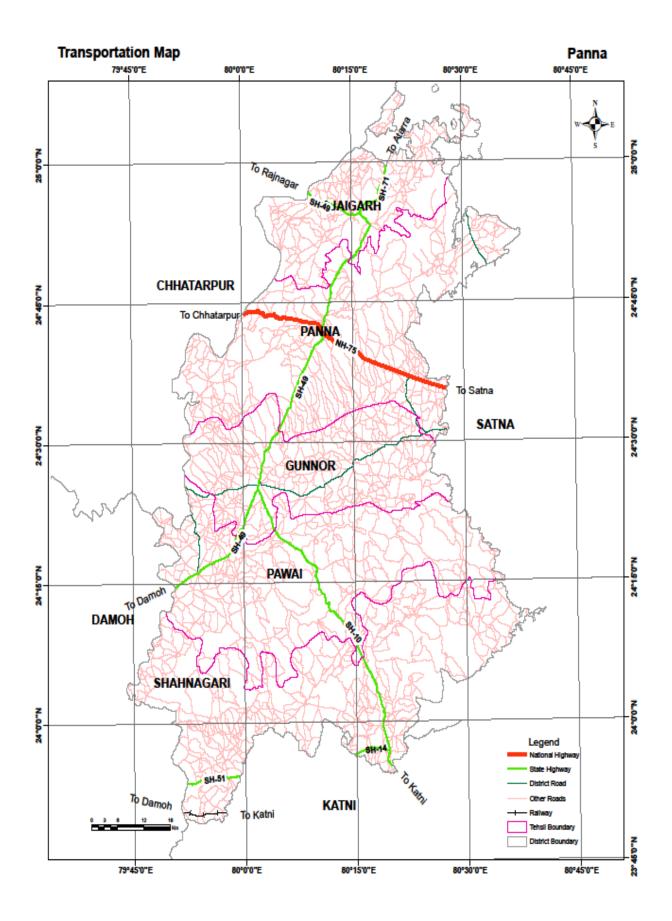
CHAPTER-I

INTRODUCTION-

Ministry of environment, forest and climate change vide notification dated 15th January 2016, New Delhi has made mandatory for mining of minor minerals irrespective of the area of mining lease, to obtain environmental clearance before mining, in this respect state govt. has set up two bodies DEIAA and DEAC which will meet once in every month and the members of this committee will recommend/scrutnize the mining plan/environmental clearance of the minor minerals. This will be done on the basis of district survey report in which all the important factors shall be taken into consideration regarding land use, reserves, mineral-availability, deposition, infrastructure, distance prohibition, annual deposition and time taken for replenishment etc,

This district survey report will be an important too for the guidance, assessment and sanction for giving environment clearance to the said mine plan of the minor mineral or if any correction or so is needed in the said mine plan.

The district lies between longitude 23°45′ N to 25° 09′N and latitude 79°45′E to 80° 45′E of sagar division. It is the northern most part of the division. It is covered by toposheet no. 55M, 54P, 63C, 63D and 64A. It is located 70 km. west from WC Rly station Satna, by all fair weather road NH-75 and nearest airport at a distance of 40km. from district HQ.



An area of 246951 Hect. i.e., about 35% of the area of the district is covered under the government forests. Administratively, the forests are divided into two divisions and 14 ranges. For operational purporses, the bulk of the forests are given the legal status of Protected Forests which, given times, will be converted into Reserved Forests. Mainly under Teak and mixed types of the Southern tropical Dry Deciduous Forests. Other types of forests are either over-lapping over these or they exist in limited areas due to variations in the climatic conditions, soil, past treatment, altitude, slope.

The Northern Tropical Dry Decidous forests are as under :- Teak, Dhaora, Tendu, Saj, Seja, Gurjan, Muhua, Bija, Bahera, Rohan, Safod Sirls, Kala Siris Semal, Kusum, Ghont, Kaim, Baranga and along nalaskoha.

SHRUBS AND HERBS:

Sihru, ainthi, dhawai, karonda, thuar, baikal, gulchitari, nirgundi, gokhru, gursakari, bantulsi, chirchinda, kareta and tarota.

GRASSES:

Bhurbhusi, lampa, gunher, phuli, aristata sain and kans.

The herbivorous animals found are barking deer, chital, nilgai, sambhar, slothbear, wild pig, common Indian hare, langoor, long tailed monkey and sahi.

The carnivorous animals found are tiger, leopared or panther, hyaena, pangolin, wild dog, wild cats, wolf, jackal and foxes.

RODENTS:

Mice, rats, voles, fruit bats and squirrels are the rodents found commonly in the district.

Sparrow, bucks, fly-catchers, common crow, geese, spaow, hawks blue-birds, barpets, barn-owls, bustord quaits, creandoves flacons, flamingoos, hornbills,

domestic and spurfowl, owls, partridges, blue-rock-pigeons, quails, snipes, mountain quail, koels, parrots, and peafowl, are common birds found in the villages open grounds, birs, gardens and jungles of this district.

Large falcons, eagles, barn owls, fly catchers, hawks, owls, jungle and common crows are common scavangers in this district.

Guina fowls, country fowis, partridges, parrots, ducks, and geese are the domestic birds. Ducks, fish-catchers, storks, and teals are water birds.

Siberian ducks white cranes visit in winters and are seen in Gangau Dam Sanctuary.

Pythons, crates, cobras, scorpians and watersnakes, and stinging bees are common harmful insects.

The whole district lies on the Vindhyachal Plateau with an average height of 560 meters. Among the prominent features are the Kymore Ranges the Panna ranges which traverses across the southern part and the North- eastern part respectively. Between the two is the upper valley of the Ken which after cutting acros the Panna Range flows along the North-western boundary. Thus the district can broadly be divided into four physiographic division in a sequences from South to North. They are:-

- (1) Sothern Plateau on the Kymore Range
- (2) The upper Ken Valley
- (3) The Panna Range and
- (4) The Lower Ken Valley

Southern Plateau on the Kymore Range:-

The Kymore range is the North-Eastern extension of Vindhyachal. In southern edge scarps southeast in Katni District, along the boundaries of

Damoh, Panna and Satna. The range widens into an elongated plateau in the southern part of Panna district i.e. most of Pawai Tehsil. It also forms a northern scarp with a fall of about 100mtr. along the Gurne and in the Upper Ken Valley. The highest hills lie in the eastern part of the tract eg. Jheria (2136ft) Mawhadol (1874ft) Amua (2120ft) Tikarwara (1927ft) and Jukehi (1947ft) on the southern scarps and Benra (1748 ft) on the northern scarp near Pawal are other high peaks. The plateau slopes towards the north and is cut up by a number of rivers flowing through deep channels. Important among them is the Ken and its tributaries, the Bearma, the Bagni, the Patne, The Simarda and Gurneh and the Sersebahra.

The Panna Range:-

It is one of the northern folds of Vindhyachal running parallel to it in a south-west to north-east direction. It traverses the northern part of Sagar, Southern part of Chhatarpur, and central part of Panna Distt and converges into Chitrakoot hills in the northern part of Satna district. The hill ranges forms a plateau 10 to 20km wide, with steeper sides on the northern as well as the southern edges. The southern edge, resting on a higher plateau, is less steep than the northern edge but it is covered by higher hills dotted with small hillocks all over and traversed by small streams flowing in several directions. It presents an uneven topography with hard and poor soil. About 10 km east of Panna, the range bifurcates longitudinally, giving way in between to the narrow syncline of the upper Baghain nala in the district and the Paisuai nala in Satna district. As a general rule all over India the Vindhyan Plateau have alignments of high peaks along the scarps, and this comes true to the hills of Panna range also. Sukuha hill is the highest along the southern scarp whereas Marla works only 150 ft on the Northern slopes. Ajaigarh town lies at an elevation of 1400 ft in the north and Panna at 1557 ft on the northern scarp.

This range separates the upper Bundelkhand plateau in the south from the lower one in the north. It also marks the northern extension of the Vindhyan rock formation which meet the lower and older strata of Bundelkhand gneisses in the north.

Ken Valley (Upper and Lower):-

Ken Valley is divided into two parts in the district. The upper valley lies between Kaimour and Panna range in the central part. The lower Valley lies to north west of the Panna range. The Panna range forms the water divide between the two valleys, while the upper valley drains to the west, the lower valley slopes along the river towards the north-east. Though wider, the former is studded with Lowhills. The lower valley is more level but narrow, it is also irrigated by the Ken canal.

Drainage:

The whole district lies in the Ganga drainage system. Most of its drains into the Yamuna through the Ken. A very small area around Devendrangar flows to the east and feeds the Ganga through the Satna and the Tons river.

The Ken:-

The ken rises at Muwar near Rithi Railway station on the Bina-Katni section of the west Central Railway in Katni District; above the Southern scarps of the Kaimour. It enter Panna within 7 km and flows to the south among the hills for 40km It receives the streams of Aloni, Sumidra and Gurne on the right bank in the part, immediately after entering the upper plateau it turns to the west and flows into Tigraghat where it is crossed by Panna-Hatta Road Patne, a tributary from the southern hills, join it at Chandarpur on Pawai Road. After the river has taken a north-westerly trend to make a groove across the Panna range, it is met by Sonar river on the left bank. The Sonar also brings the water from

Bearma which marks the western boundary for about 40km. The Mirhasan, which collects the waters of the southern slopes of the Panna ranges joins the right bank below Singora.

The course of the Ken for 35km, while crossing the Panna ranges is narrow. It is marked by several rapids and falls below the hard rocks and pools above a rocky edge. Here the ken determines the boundray between Chhatarpur and Panna district, untill it leaves below Bira. Near Khami and Patharpur villages, there are two falls of 48 mtr & 45 mtr. The fall at Raneh near narayanpur is 25 mtr, now ken turns to the north-east and washes the edges of the Panna Range upto the road crossing at Mera. Further, it enters the lower plateau, and meanders along the north-western boundary, its valley in Ajaygarh Tehsil is narrow as compared to Chhatarpur and Banda Districts.

All streams of the district are seasonal and turbulent during the rains. In summer they are dry or mere threads between the wide sandy bed. The channels are deep in the hilly areas.

CHAPTER – II

OVERVIEW OF MINING ACTIVITY IN THE DISTRICT

Panna is the only district in country where mechanised mining of diamond is under progress, other minerals found in the district are limestone which is being leased out to different agencies, etc for setting up cement industry. Previously few lime kilns were set up around Devendranagar but at present they are not in working condition. Few granite and Green sandstone cutting & polishing industries were set up but at present they are not in working condition only unfinished blocks are sent.

In Panna district 01 mining lease of diamond is sanctioned and 177 quarry leases are sactioned for different minerals like flagstone, granite, boulder, stone for crusher, etc. 69 auction quarries of flagstone, boulders and 25 sand quarries.

Royalty received from these quarries is Rs. 109523769 and 82299719 ending financial year 2015.

CHAPTER – III
LIST OF AUCTION QUARRY OF MINOR MINERALS

S.	Name of	Block	Tehsil	Detail	s of Quarry		Name of	Offset	
	Grampanchyat	Grampanchyat			Name of Quarry	Khasara No.	Area in Hect.	Mineral	value
1	पनारी	पन्ना	पन्ना	पनारी	127		फर्शी पत्थर		
2	हरदुहाई	पन्ना	पन्ना	हरदुहाई	43/1	1.00	बोल्डर पत्थर	40000	
3	राजापुर	पन्ना	देवेन्द्रनगर	राजापुर	156	1.00	बोल्डर पत्थर	40000	
4	तारा	गुनौर	अमानगंज	तारा नं0 2	16/1	2.00	बोल्डर पत्थर	80000	
5	तारा	गुनौर	अमानगंज	तारा नं0 3	16/1	1.00	बोल्डर पत्थर	40000	
6	बलगहा	गुनौर	अमानगंज	बलगहा	1	2.00	बोल्डर पत्थर	80000	
7	झरकुआ	गुनौर	अमानगंज	झरकुआ	1676 / 1		बोल्डर पत्थर	40000	
8	सिरी	गुनौर	अमानगंज	सिरी	202/1		बोल्डर पत्थर	121000	
9	रामपुर	गुनौर	अमानगंज	रामपुर नं0-1	195		बोल्डर पत्थर	80000	
10	रामपुर	गुनौर	अमानगंज	रामपुर नं0-2	195	2.00	बोल्डर पत्थर	80000	
11	रामपुर	गुनौर	अमानगंज	रामपुर नं0-3	195	2.00	बोल्डर पत्थर	80000	
12	रामपुर	ं गुनौर	अमानगंज	रामपुर नं0-4	195	2.00	बोल्डर पत्थर	80000	
13	रामपुर	गुनौर	अमानगंज	रामपुर नं0-5	195		बोल्डर पत्थर	80000	
14	रामपुर	गुनौर	अमानगंज	रामपुर नं0-6	195		बोल्डर पत्थर	80000	
15	रामपुर	गुनौर	अमानगंज	रामपुर नं0-7	195		बोल्डर पत्थर	80000	
16	झरकुआ	गुनौर	अमानगंज	झरकुआ	1622		बोल्डर पत्थर	80000	
17	झरकुआ	गुनौर	अमानगंज	झरकुआ	1604		बोल्डर पत्थर	80000	
18	उडला	गुनौर	अमानगंज	उडला	93		बोल्डर पत्थर	40000	
19	गूढ़ा	गुनौर	अमानगंज	गूढ़ा	215		बोल्डर पत्थर		
20	खजरूट	गुनौर	अमानगंज	खजरूट	3		बोल्डर पत्थर	80000	
21	खजरूट	गुनौर	अमानगंज	खजरूट	229		बोल्डर पत्थर	80000	
22	उड़ला	गुनौर	अमानगंज	उड़ला	578	1.00	बोल्डर पत्थर	42000	
23	उड़ला	गुनौर	अमानगंज	उड़ला	605	5.50	रेत	1320000	
24	सुनवानीखुर्द	गुनौर	अमानगंज	सुनवानीखुर्द	155	5.30	े रेत	1272000	
25	महेवा	गुनौर	गुनौर	महेवा	363	2.00	बोल्डर पत्थर	85000	
26	बरहाकला	गुनौर	गुनौर	बरहाकला	1140/1	2.00	बोल्डर पत्थर	82500	
7	लुहरगांव	गुनौर	गुनौर	लुहरगांव	460, 464	1.00	बोल्डर पत्थर	554500	
28	कठवरिया	गुनौर	गुनौर	कठवरिया	2473		बोल्डर पत्थर	87500	
29	कोलगंवा मडैयन	गुनौर	गुनौर	कोलगंवा मडैयन	316		बोल्डर पत्थर	91000	

30	पिपरिया	गुनौर '	गुनौर	पिपरिया	96		रेत	1248000
31	कोठी	पवई	पवई	कोठी	40	,	बोल्डर पत्थर	194000
32	कोठी	पवई	पवई	कोठी	164	400	बोल्डर पत्थर	268000
33	ढेसाई	पवई	पवई	ढेसाई	807	1	बोल्डर पत्थर	80000
34	कुटमी '	पवई	पवई	ं कुटमी	126		फर्शी पत्थर	1000000
35	बछौन	पवई	पवई	बछीन	757		फर्शी पत्थर	250000
36	बछौन	पवई	पवई	बछौन	15/1		फर्शी पत्थर	208000
37	बछौन	पवई	पवई	बछौन	754 / 1,758		फर्शी पत्थर	241000
38	बछौन	पवई	पवई	बछौन	51		फर्शी पत्थर	299000
39	बीजादेह खिलसारी	पवई	पवई	बीजादेह खिलसारी	42		फर्शी पत्थर	75000
40	बछौन	पवई	पवई	बछौन	19		फर्शी पत्थर	100000
41	कैमुरिया	पवई	पवई	कैमुरिया	241,242 / 1		फर्शीपत्थर	400000
42	पुरैना	पवई	पवई	पुरैना	468	6.00	रेत	1440000
43	बड़खेराकला	पवई	पवई	बङ्खेराकला	1	5.50	रेत	1320000
44	सिघांसर	पवई	पवई	सिघांसर	1, 96	5.40	रेत	12960000
45	कोलकरहिया	पवई	पवई	कोलकरहिया	582	5.30	रेत	1320000
46	कैथी	पवई	पवई	कैथी	2	5.00	रेत	1200000
47	गूढ़ा	पवई	पवई	गूढ़ा	24	5.10	रेत	1200000
48	देवरा	शाहनगर	शाहनगर	देवरा	233	2.00	बोल्डर पत्थर	80000
49	कचौरी	शाहनगर	शाहनगर	कचौरी	3218/1	2.00	बोल्डर पत्थर	172000
50	देवरी	शाहनगर	शाहनगर	देवरी	1282	1.82	बोल्डर पत्थर	80000
51	आमा	शाहनगर	शाहनगर	. आमा	1554	1.00	बोल्डर पत्थर	137000
52	चौपरा	शाहनगर	शाहनगर	चौपरा	1581	2.00	बोल्डर पत्थर	221500
53	चौपरा	शाहनगर	शाहनगर	चौपरा	1471	1.70	बोल्डर पत्थर	80000
54	सलैया समारी	शाहनगर	शाहनगर	सलैया समारी	1021	1.00	बोल्डर पत्थर	40000
55	रमगढा ·	शाहनगर	शाहनगर	रमगढा	253,296		फर्शी पत्थर	270000
56	बडखेरा	शाहनगर	रैपुरा	बडखेरा	284	1.00	बोल्डर पत्थर	40000
57	इमलिया	शाहनगर	रैपुरा	इमलिया	611/2		बोल्डर पत्थर	_
58	इमलिया	शाहनगर	रेपुरा	इमलिया	628 / 4		बोल्डर पत्थर	_
59	पौडी	शाहनगर	रैपुरा	पौडी	861/1	2.00	बोल्डर पत्थर	143000
60	इटौरा	शाहनगर	रैपुरा	इटौरा	504	2.00	बोल्डर पत्थर	129000
61	बगडौर	शाहनगर	रैपुरा	बगडौर नं01	82	2.00	बोल्डर पत्थर	80000
62	कूड़ा	शाहनगर	रैपुरा	कूड़ा	43	2.00	बोल्डर पत्थर	150000
63	पटना	शाहनगर	रैपुरा	पटना	1055/1	2.00	बोल्डर पत्थर	80000

64	पटना	· शाहनगरं	रैपुरा	पटना '	1048		बोल्डर पत्थर	80000
65	बगडौर	शाहनगर	रैपुरा	बगडौर नं02	82	2.00	बोल्डर पत्थर	144500
66	तुल्ला	शाहनगर	रैपुरा	तुल्ला	21		बोल्डर पत्थर	147000
67	इटौरा	शाहनगर	रैपुरा	इटौरा	3		बोल्डर पत्थर	80000
68	• इटौरा	शाहनगर	रैपुरा	इटौरा	1118	2.00	बोल्डर पत्थर	178500
69	भरवारा	शाहनगर	रैपुरा	भरवारा	3036 / 1		फर्शी पत्थर	86000
70	तुल्ला	शाहनगर	रैपुरा	तुल्ला	21		फर्शी पत्थर	245000
71	चन्द्रावल	शाहनगर	रैपुरा	चन्द्रावल नं0 1	1	6.00	रेत	1440000
72	चन्द्रावल	शाहनगर	रैपुरा	चन्द्रावल नं0 2	526, 549	6.00	रेत	1440000
73	मौहारककरा	शाहनगर	रैपुरा	मौहारककरा	1	5.20	रेत	1248000
74	कगरेकाबारा	अजयगढ़	अजयगढ़	कगरेकाबारा	247	1 1	बोल्डर पत्थर	
75	मझगाय	अजयगढ़	अजयगढ़	मझगाय	668	1.00	बोल्डर पत्थर	40000
76	मझगाय	अजयगढ़	अजयगढ़	मझगाय	693		बोल्डर पत्थर	40000
77	कगरे का बारा	अजयगढ़	अजयगढ़	कगरे का बारा	250		बोल्डर पत्थर	41000
78	बरौली नं0 —2	अजयगढ़	अजयगढ़	बरौली नं0-2	105	1.00	बोल्डर पत्थर	40000
79	बरौली नं0 3	अजयगढ़	अजयगढ़	बरौली नं0 3	105/1	2.00	बोल्डर पत्थर	111500
80	देवरा भापतपुर	अजयगढ़	अजयगढ़	देवरा भापतपुर			बोल्डर पत्थर	40000
81	विलाही	अजयगढ़	अजयगढ़	विलाही	328 / 412	Ski	बोल्डर पत्थर	40000
82	बीरा	अजयगढ़	अजयगढ़	बीरा नं0 1	1	7.00	रेत	10500000
83	बीरा	अजयगढ़	अजयगढ़	बीरा नं0 2	1	7.00	रेत	12250000
84	बीरा -	अजयगढ़	अजयगढ़	बीरा नं0 3	1	6.00	रेत	10500000
85	उदयपुर	अजयगढ़	अजयगढ़	उदयपुर	1	10.00	रंत	17500000
86	बरकोला	अजयगढ़	अजयगढ़	बरकोला	1	6.00	रेत	9000000
87	मझगांय	अजयगढ़	अजयगढ़	मझगांय	2	8.00	रेत	12000000
88	मोहाना	अजयगढ़	अजयगढ़	मोहाना नं0 1	1463	12.00	रेल	18000000
89	मोहाना	अजयगढ़	अजयगढ़	मोहाना नं0 2	55	6.00	रेल	9000000
90	रामनई	अजयगढ़	अजयगढ़	रामनई	1	7.00	रेत	8750000
91	चन्दौरा	अजयगढ़	अजयगढ़	चन्दौरा	1	8.00	रेत	16000000
92	भीना	अजयगढ़	अजयगढ़	भीना	1	10.75	रेत	21500000
93	सुनहरा	अजयगढ़	अजयगढ़	सुनहरा	1	7.00	रेत	13125000
94	फरस्वाहा	अजयगढ़	अजयगढ़	फरस्वाहा	1	7.00	रेत	11250000

List of Quarry Leases in Panna District

S.	Name of Lease and Address	Sanctioned	Name of	Kharasa	Area	Period of	Name of
		quarry and	Mineral	No.		validity	Tehsil
		village					
1	2	3	4	3	4	5	6
1	भाग्यवंती ग्रेनाइट प्रो0 श्री ज्ञानेन्द्र सिंह निवासी छंगे राजा हाउस पन्ना	पिष्टा	ग्रेनाइट पत्थर	2029	8.06 एकड	08.03.07 से 07.03.17 तक	अजयगढ
2	श्रीमती निशा बाजपेई पत्नि प्रदीप बाजपेई निवासी रतहरा जिला रीवा	मुहाना	क्रेशर गिट्टी	621	2.00 हे0	15.04.10 से 14.04.20 तक	अजयगढ
3	में सावित्री स्टोन माइन्स प्रों भाष्कर दीक्षित निं0 मठया तालाब पन्ना	मझगॉय	क्रेशर गिट्टी	935	2.00 हे0	16.12.06 से 15.12.206 तक	अजयगढ
4	मे0 नीलम कान्स्ट्रक्शन प्रो0 श्रीमति नीलम सिंह नि0 गल्ला कोठी पन्ना	पिष्टा	केशर गिटटी	1703	0.18	13.09.10 से 12.09.20 तक	अजयगढ
5	श्री उपेन्द्र प्रताप सिंह पिता श्री भानू प्रताप सिंह निवासी पन्ना	रहुनिया	फर्शी पत्थर	10,26,27	2.00	12.10.06 से 1.10.16	पन्ना
6	में० धरती धन स्टोन प्रो0 श्रीमति सुशीला पाठक नि0 कटरा पन्ना	पन्ना	फर्सी पत्थर	51	1.590	16.03.08 से 15.03.18 तक	पन्ना
7	श्री बृजमोहन सिंह पिता श्री जयराम सिंह निवासी धरमपुर	सिलधरा	फर्शी पत्थर	87	1.500	16.06.08 से 15.08.18	पन्ना
8	श्रीमति गीता वाई पति श्री अशोक कुमार पाण्डेय निवासी पन्ना	रानीपुर	फर्सी पत्थर	470	0.71	15.10.08 से 14.10.18	पन्ना
9	श्री नरेश पाठक पिता श्री हरी शरण निवासी नचनौरा	दहलान चौकी	फर्शी पत्थर	312/2	1.06	10.09.05 से 09.09.15	पन्ना
10	श्री धरमदास कुशवाहा पिता श्री कल्लू निवासी पन्ना	दहलान चौकी	फर्शी पत्थर	311	0.8	26.12.05 से 25.12.15	पन्ना
11	श्री सलीम खान पिता श्री याकूब खान निवासी पन्ना	दहलान चौकी	फर्शी पत्थर	19/3	1.0	26.12.05 से 25.12.15	पन्ना
12	में0 सिद्धी विनायक स्टोन प्रो0 श्रीकान्त दीक्षित निवासी पन्ना	जमुनहाई	फर्शी पत्थर	47,48	4.00	17.08.06 से 16.08.16	पन्ना
13	श्री बाला प्रसाद गडरिया पिता श्री गिल्ला निवासी विश्राम गंज	रहुनिया	फर्शी पत्थर	10,11/1kh	4.00	12.10.06 से 1.10.16	पन्ना
14	श्री राजेन्द्र प्रसाद गुप्ता पिता श्री मोहन लाल गुप्ता निवासी पन्ना हस्ता० श्रीमती साधना गुप्ता	दहलान चौकी	फर्शी पत्थर	260	1.85	09.10.06 से 08.10.16	पन्ना
15	श्री आशुतोष सिंह पिता श्री स्व0 श्री राम सिंह निवासी पन्ना हस्ता0 श्री देवेन्द्र सिहं	पन्ना	फर्शी पत्थर	520/1	2.00	05.10.06 से 04.10.16	पन्ना
16	श्री भूपेन्द्र सिंह पिता री पूरन सिंह निवासी पन्ना	दहलान चौकी	फर्शी पत्थर	312/1,2	0.50	17.1.06 से 16.11.16	पन्ना
17	श्री मित मैदा बाई पत्नी महेन्द्र सिंह यादव निवासी पन्ना	पन्ना तह0 पन्ना	फर्शी पत्थर	520/6k	2.00	29.07.07 से 28.07.17	पन्ना
18	श्री सुरेश कुमार शुक्ला पिता श्री रामस्वरूप शुक्ला निवासी पन्ना	पन्ना तह0 पन्ना	फर्शी पत्थर	78/1	2.00	16.11.07 से 15.11.17	पन्ना
19	में। सिद्धी विनायक स्टोन प्रों। श्रीकान्त दीक्षित निवासी पन्ना	पन्ना तह0 पन्ना	फर्शी पत्थर	20/2	2.00	20.03.08 से 19.03.18	पन्ना
20	श्री ग्यासी राम आदिवासी पिता श्री राजाराम आदिवासी निवासी गहदरा	मनौर	फर्शी पत्थर	13/4	1.00	15.05.08 से 18.05.18	पन्ना
21	श्री भूपेन्द्र सिंह पिता श्री पूरन सिंह निवासी पन्ना	पनारी	फर्शी पत्थर	127	1.500	26.09.08 से 25.09.18	पन्ना
22	श्री अशोक कुमार शिवहरे पिता श्री जगदेव प्रसाद शिवहरे निवासी मोहन निवास पन्ना	उदयपुर	फर्शी पत्थर	4	1.50	29.05.09 से 28.05.19	पन्ना
23	श्री रविन्द्र प्रसाद शुक्ला निवासी रानीबाग पन्ना	पन्ना	- फर्शी पत्थर	57	1.250	19.07.09 से 18.07.19	पन्ना
24	श्री इन्द्रपाल शिवहरे पिता श्री अनन्दी लाल शिवहरे निवासी पन्ना	पाठा	फर्शी पत्थर	98	0.70	06.11.09 से 05.1.19	पन्ना
25	श्री मनोज गुप्ता पिता श्री वहारी लाल गुप्ता निवासी सभागंज जिला सतना	सारंगपुर	फर्शी पत्थर	53	2.00	25.07.07 से 24.07.17	शाहनगर
26	चुन्नी लाल पिता कांती लाल पटेल निवासी कटनी	मलघन	फर्शी पत्थर	569	2.00	01.09.07 से 31.08.17	शाहनगर
27	श्री सतेन्द्र सिंह पिता श्री पुष्पेन्द्र सिंह निवासी कटनी	विसानी	फर्शी पत्थर	2564	3.00	05.08.09 से 04.08.19	शाहनगर
28	श्री अनन्त मसुरहा पिता श्री हरगोविन्द मसुरहा निवासी टिकरिया	विसानी	फर्शी पत्थर	94,95,	2.00	31.07.09 से 30.07.19	शाहनगर
29	श्री प्रेम लाल अहिरवार पिता श्री मुलुआ आहिरवार निवासी पडरिया	अतरहाई	फर्शी पत्थर	3838	3.99	03.11.08 社 02.11.18	शाहनगर
30	श्रीमती सीमा परौहा पत्नि स्व0 श्री कृष्ण कुमार परौहा निवासी लमतरा शाहनगर	घोना	फर्शी पत्थर	40/2	2.00	23.02.09 से 22.02.19	शाहनगर
	में0 डायमंड स्टोन क्रेशर प्रों0 श्रीकान्त दीक्षित निवासी पन्ना	सिली	क्रेशर गिट्टी	228,2,1228,3,1,28 ,2,2,228,3,2	1.00	03.03.08	गुनौर
	श्री शैलेश नगायच पिता श्री जगदीश प्रसाद निवासी	टाई	क्रेशर गिट्टी	1021,1023,	0.75	14.01.05 से 13.10.15	गुनौर
	श्री दुश्यंत सिंह पिता श्री जगत प्रताप सिंह निवासी सुगरहा	लुहरगॉव	क्रेशर गिट्टी	386	0.65	18.07.06 से 17.07.16	गुनौर
	में। जुगल किशोर स्टोन केशर प्रो0 सुमन पाठक निवासी पन्ना	सिली	क्रेशर गिट्टी	228/1k,228/1k	3.563	08.06.07 से 07.0617	गुनौर
	श्री मति नंदिता सिंह पति श्री वृजेन्द्र सिंह निवासी ग्राम इटौरी	टाई	क्रेशर गिट्टी	995/6	1.85	24.08.07 柱 23.08.17	गुनौर
	श्री शैलेश नगायच पिता श्री जगदीश प्रसाद निवासी पवई	टाई	क्रेशर गिट्टी	10,251,059	1.39	12.07.07 社 1.07.17	गुनौर
	में डायमंड स्टोन क्रेशर प्रों0 श्रीकान्त दीक्षित निवासी पन्ना	विलघाडी	क्रेशर गिट्टी	33,613,362	1.00	25.09.08 से 24.09.18	गुनौर
38	श्री नरेन्द्र वागरी पिता श्री काशीप्रसाद बागरी निवासी फुलदरी	झरकुआ	क्रेशर गिट्टी	1676/1	4.00	16.05.07 से 15.05.17	गुनौर

39 श्री शैलेन्द्र कुमार पिता श्री प्रकाशचन्द्र पीपरा निवासी धाम मोहल्ला पन्ना	बरहाकला	केशर गिटटी	1140/1 k	3.99	23.10.2010 से 22.10.2020	गुनौर
40 श्री राजिकशोर शर्मा पिता श्री शंभू प्रसाद शर्मा निवासी पटना तमोंली तह0 गुनौर	जनपुरा	फर्शी पत्थर	1.,15	2.00	16.10.07 से 15.10.17	पवई
41 श्री चुन्नी लाल पटैल पिता श्री खेम जी भाई निवासी कटनी	सिगडा -	फर्शी पत्थर	107/1	1.768	15.12.07 से 24.12.17	पवई
42 श्री तीरथ प्रसाद लोधी पिता श्री मंगल प्रसाद लोधी निवासी हरीरा तह0 गुनौर	जैतुपुरा	फर्शी पत्थर	* 38,39	2.0	07.03.08 से 06.03.18	पवई
43 श्री रघुवीर सिंह पिता श्री करतार सिंह निवासी कटनी	झांझर	फर्शी पत्थर	104	1.70	03.03.08 से 02.03.18	पवई
44 अध्यक्ष पिछडा वर्ग पत्थर खदान श्रमिक मजदूर सह०स०मार्या० सो० आगरा मोह० पन्ना	कुठरहिया	फर्शी पत्थर	224	2.50	17.08.08 से 16.08.18	पवई
45 श्री गिरधारी पिता चखुआ आदिवासी निवासी कुँअरपुर तह0 पवई	कुठरहिया	फर्शी पत्थर	288	1.00	21.09.08 से 20.09.18	पवई
46 श्री रामगोपाल पिता पोहूराम जैसवांनी निवासी कटनी	चौपरा	फर्सी पत्थर	167	1.50	21.12.08 से 20.12.18	पवई
47 श्री ध्रुव कुमार पिता पन्ना लाल चौरसिया निवासी मोहन्द्रा	कुटरहिया	फ़र्सी पत्थर	293	2.00	5.01.09 से 04.1.19	पवई
48 श्री अध्यक्ष आदिवासी वनोपज सहकारी सिम0 मर्या0 बरौंहा	कैमुरिया	फर्शी पत्थर	236,246	2.00	03.02.2009	पवई
49 श्री प्रताप गौड पिता श्री गोटी गौड निवासी बेलडावर	कुठरहिया	फर्शी पत्थर	281/1	1.40	26.03.09 से 25.03.19	पवई
50 अध्यक्ष छुई मिट्टी खदान उद्योग सह0स0 जसवन्तपुरा	मोहडिया	फर्शी पत्थर	404	0.60	03.04.09 से 02.04.19	पवई
51 राजेन्द्र कुमार पिता बावू लाल जैन निवासी सलेहा	सोनई	फर्सी पत्थर	15	0.75	03.04.09 से 02.04.19	पवई
52 श्री श्याम लाल अहिरवारपिता श्री पसुआ चमार निवासी पडरिया	तालगाँव	फर्शी पत्थर	175/1	3.00	15.05.09 से 31.04.19	पवई
53 श्री राजेन्द्र कुमार पटैल निवासी नन्ही पवई	झांझर	फर्शी पत्थर	344	2.00	14.07.09 से 13.07.19	पवई
54 कल्लू पिता शरीफ शाह निवासी सिमरिया	• कुटरहिया	फर्सी पत्थर	206	4.00	29.1.09 से 28.11.19	पवई
55 श्री हरप्रीत सिंह पिता श्री रधुबीर सिंह निवासी कटनी	सिगडा	फर्शी पत्थर	53/1	0.90	30.12.10 से 29.12.20	पवई
56 श्री रमेश कुमार गौतम पिता श्री शिवनारयण गौतम निवासी कटनी	देवरी	फर्शी पत्थर	68	1.00	24.1.06 से 23.1.16	पवई
57 श्री लाल बहादुर सिंह पिता बुद्ध सिंह निवासी रूंध	जैतुपुरा तह0 पवर्ड	फर्शी पत्थर	35,37	2.50	18.10.05 से 17.10.15	पवई
58 श्री संजय लटौरिया पिता श्री बाबूलाल लटौरिया निवासी पवई	मोहिडया	फर्शी पत्थर	136,137,138	1.00	09.10.06 से 08.10.16	पवई
59 श्री ओम प्रकाश गर्ग पिता श्री रामेश्वर प्रसाद गर्ग निवासी सथनिया	जैतुपुरा	फर्शी पत्थर	41	1.935	05.10.06 से 04.10.16	पवई
o श्री कृष्ण प्रताप सिंह पिता श्री प्यारे जू निवासी लुधनी	कोठी	फर्शी पत्थर	31	1.370	27.10.06 से 26.10.16	पवई
31 श्रीमति विद्या बाई पत्नी श्री मदन मोहनपाण्डे निवासी कठवरिया	बीजादोह खिलसारी	फर्शी पत्थर	39/1	1.500	10.02.07 से 09.02.17	पवई
32 श्री लखुआ अहिरवार पिता श्री दुरजना अहिरवार निवासी इटौरी	कुटर्मी	फर्शी पत्थर	277,278,279	3.88	27.02.07 से 26.02.17	पवई
3 श्री रमेश कुमार गौतम पिता श्री शिवनारायण गौतम निवासी कटनी	देवरी	फर्शी पत्थर	68	1.00	24.1.06 से 23.1.16	पवई
4 श्री मदन मोहन पाण्डे पिता श्री बद्री प्रसाद पाण्डे निवासी कठवरिया गुनौर जिला पन्ना	बीजादोह खिलसारी	फर्शी पत्थर	39/1	1.200	15.03.07 से 14.03.17	पवई
5 श्री बालगोविन्द्र कोरी पिता श्री भइया लाल कोरी निवासी पन्ना	कुटमी	फर्शी पत्थर	279	1.00	03.04.07	पवई
6 श्री राम कुमार पिता श्री देवी प्रसाद निवासी खबरा	जैतुपुरा	फर्शी पत्थर	101	1.650	17.04.07 से 16.04.17	पवई
हर श्री पन्नू आदिवासी पिता श्री कढ़ोरा आदिवासी निवासी टिकरिया	टिकरिया	फर्शी पत्थर	175	. 1.00	20.06.07 से 16.06.17	पवई
8 श्री रामप्रताप पिता श्री देवकी नन्दन चौरसिया निवासी मोहन्द्रा	कढ़ना	फर्शी पत्थर	680	1.500	02.07.07 से 01.07.17	पवई
9 श्री चॉद मोहम्मद पिता श्री फजल मो0 निवासी सलेहा	बछौन	फर्शी पत्थर	51/1	0.850	04.07.07 से 03.07.17	पवई
0 श्रीमति शशि किरण सिंह पत्नी श्री राजेन्द्र सिंह निवासी सलेहा	ककरी कछार	फर्शी पत्थर	25/1	2.00	1.09.07 से 10.09.17	पवई
1 श्री कुंज विहारी पिता कृष्ण मोहन पाण्डेय निवासी कठवरिया	जैतुपुरा तह0 पवई	फर्शी पत्थर	40	1.00	07.1.07 से 06.1.17	पवई
2 श्री अजय देव बुन्देला पिता श्री अरूणपाल सिंह बुन्देला निवासी शिकारपुरा	कैमुरिया	फर्शी पत्थर	242/2	0.70	19.11.07 से 18.1.17	पवई
3 श्री धर्मेन्द्र पाल सिंह पिता श्री गन्धर्व सिंह निवासी वराहों	ककरी कछार	फर्शी पत्थर	25/1	1.400	04.10.07 से 03.10.17	पवई
4 श्री भगवानदीन आदिवासी पिता श्री सलैया आदिवासी निवासी लमतरा	देवरी	फर्शी पत्थर	68	0.700	19.11.07 से 18.1.17	पवई
5 श्री शंकर आदिवासी पिता श्री परदेशी आदिवासी निवासी महेवा	तालगाँव	फर्शी पत्थर	126	0.41	19.12.07 से 18.12.17	पवई
6 श्री सुनील कुमार पाण्डे पिता श्री कृष्ण कुमार पाण्डे निवासी कठवरिया	जनपुरा	फर्शी पत्थर	1-Jan	1.00	30.11.07 से 29.11.17.	`पवई
7 श्री मोहन आदिवासी पिता श्री सकूरा आदिवासी निवासी हडा	तालगाँव	फर्शी पत्थर	125/1	1.00	29.11.07 से 28.1.17	पवई
8 श्री देवेन्द्र सिंह पिता श्री इन्द्रवीर सिंह परमार निवासी करहिया	कुटमी	फर्शी पत्थर	217/1	1.00	31.12.07 से 30.12.17	पवई
9 श्रीमति रूपिन्दर कौर पत्नी श्री देवेन्दर सिंह कौर निवासी मुटमुरू	जैतुपुरा	फर्शी पत्थर	45	1.25	31.01.08 से 30.01.18	पवई
0 श्रीमित मोहन देवी पत्नी काशी प्रासाद बागरी निवासी फुलदरी	जैतुपुरा	फर्शी पत्थर	101	1.00	03.03.08 社 02.03.18	पवर्ड

81	श्री राम मनोहर गौड	कोडा	फर्शी पत्थर	19,20,	0.6	31.01.08 से 30.01.18	पवर्ड
	कुँ० संयोगिता पाण्डे पिता श्री मदन मोहन पाण्डे निवासी सलेहा	घुटेही	' फर्शी पत्थर	352,353,354	1.16	1.02.08 से 10.02.18	पवर्ड
83	श्री पंचम सिंह पिता श्री अम्रत लाल यादव निवासी मोहडिया	मोहडिया	फर्शी पत्थर	140	0.75	08.04.08 ₹ 07.04.18	पवई
	श्री सुरेन्द्र सिंह पिता श्री भामा साह निवासी जसवंतपुरा	नारदपुर	' फर्शी पत्थर	2-Apr	0.75	17.03.08 से 16.03.18 '	पवर्ड
	श्रीमति पिंकी बागरी पत्नी यादवेन्द्र सिंह निवासी पवई	झांझर तह0 पवई	फर्शी पत्थर	344	2.00	20.03.08 से 19.03.18	पवई
	श्रीमति नीलेश पाण्डे पत्नी धीरेन्द्र पाण्डे निवासी पन्ना	घुटेही	फर्शी पत्थर	363,364,365	1.00	18.03.08 से 17.03.18	पवई
87	श्री अवध विहारी पिता श्री भूरे राम शर्मा नि0 सलेहा जिला पन्ना	जूडा	फर्शी पत्थर	220,222,223	0.60	18.03.08 社 17.03.18	पवई
88	श्री रावेन्द्र सिंह पिता श्री इन्द्रभान सिंह निवासी कटनी	लिलवार	फर्शी पत्थर	13	1.30	01.04.08 社 31.03.18	पवई
89	श्री पहाडू आदिवासी पिता श्री मनुआ आदिवासी लमकुस	ककरी कछार	फर्शी पत्थर	25/1	0.50	19.05.08 से 18.05.18	पवई
90	श्री मित देशरानी पत्नी मिलन सिंह निवासी बछौन	बछौन	फर्शी पत्थर	51/1	0.40	04.11.08 से 03.11.18	पवई
91	श्री शंकर सिंह पिता श्री परवत सिंह निवासी कटरा सलेहा	ककरी कछार	फर्शी पत्थर	93	2.00	01.12.08 से 30.1.18	पवई
92	श्री ज्ञानेन्द्र सिंह पिता श्री दीवान जीत सिंह निवासी सलेहा	बछौन	फर्शी पत्थर	751	1.80	09.07.09 से 18.07.19	पवई
.93	श्री रमाकान्त गौतम पिता श्री बीर अभिमन्यू निवासी कटनी	चौपारा	फर्शी पत्थर	203	1.49	22.02.10 से 21.02.20	पवई
94	श्री लक्ष्मण प्रसाद पाठक पिता श्री शालेग राम निवासी गौरा	कोड़ा	फर्शी पत्थर	18	1.0	02.11.2009 से 01.11.2019	पवई
95	श्री गोविन्द सिंह पिता गुलाब सिंह निवासी सिंहपुर तह0 अजयगढ़	ककरी कछार	फर्सी पत्थर	108/1	1.6	17.08.08 से 16.08.18	पवई
96	श्री पुष्पेन्द्र सिंह पिताश्री विश्वनाथ सिंह निवासी पहरूवा कटनी	कैमुरिया	फर्सी पत्थर	86	1	18.12.09 से 17.12.19	पवई
97	श्री जय प्रकाश पिता राम नरेश दुवे निवासी दनवारा	टिकरिया	66	66	0.51	16.04.10 से 15.04.20	पवई
	श्री मदन मोहन पांडे पिता श्री बद्री प्रसाद पांडे निवासी कठवरिया	बीजादोह खिलसारी	39/1	101	1.2	24.04.07 से 23.04.17	पवई
99	श्री देवेन्द्र सिंह पिता श्री खिलावन सिंह निवासी लुधनी	गनियारी .	क्रेशर गिट्टी	245	2	26.10.06 से 25.10,16	पवई
100	श्री राजेश कुमार द्विवेदी पिता श्री जगप्रसाद द्विवेदी निवासी बेनीसागर मोहल्ला पन्ना म०प्र०	कोलकरहिया	केशर गिटटी	1287	2.84	23.10.2010 से 22.10.2020	पवई
101	श्री चतुरेश पाण्डे पिता श्री रामऔतार पाण्डे निवासी पवई जिला पन्ना	कुठरहिया	केशर गिटटी	280	2.5	15.06.2011 से 14.06.2021	पवई
102	श्री पुरूषोतम पाण्डे पिता श्री विश्वनाथ प्रसाद पाण्डे निवासी मोहन्द्रा तहसील पवई जिला पन्ना	कुठरहिया	केशर गिटटी	220	2.00	18.01.2011 से 17.01.2010	पवई
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उपसंचालक एवं प्रभारी अधिकारी खनिज जिला पन्ना म0प्र0

List of Quarry Leases in Panna District

S.	Name of Lease and Address	Sanctioned	Kharasa No.	Area	Period of	Name	Name	Remark	Quarries
		quarry and		(Hect.)	validity	of	of		Situation
		village				Tehsil	Mineral		
1	2	3	4	5	6	7	8	9	10
	में0 धरती धन स्टोन प्रो0 श्रीमति सुशीला पाठक नि0 कटरा पन्ना म0प्र0	पन्ना	51	1.590	16.03.08 से 15.03.18	पन्ना	फर्सी पत्थर	उत्खिन पट्टा	संचालित
	श्री बृजमोहन सिंह पिता श्री जयराम सिंह निवासी धरमपुर	सिलधरा	87	1.500	16.06.08 से 15.08.18	पन्ना	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	श्रीमति गीता वाई पति श्री अशोक कुमार पाण्डेय निवासी पन्ना	रानीपुर	470	0.71	15.10.08 से 14.10.18	पन्ना :	फर्सी पत्थर	उत्खनि पदटा	संचालित
	में। सिद्धी विनायक स्टोन प्रो0 श्रीकान्स दीक्षित निवासी पन्ना	जमुनहाई	47, 48	4.00	17.08.06 से 16.08.16	पन्ना	फर्शी पत्थर	उत्खनि पदटा	संचालित
5	श्रीमती साधना गुप्ता पत्नि स्व०श्री राजेन्द्र प्रसाद गुप्ता निवासी बडा बाजार पन्ना	दहलान चौकी	260	1.85	09.10.06 से 08.10.16	पन्ना	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	श्री भूपेन्द्र सिंह पिता श्री पूरन सिंह निवासी पन्ना मठप्रठ	दहलान चौकी	312/1,2	0.50	17.01.06 से 16.11.16	पन्ना	फर्शी पत्थर	उत्खनि पद्टा	संचालित .
	श्री रविन्द्र प्रसाद शुक्ला निवासी रानीबाग पन्ना	पन्ना	57	1.250	19.07.09 से 18.07.19	पन्ना	फर्शी पत्थर	उत्खनि पट्टा	संचालित
8	श्री राजिकशोर शर्मा पिता श्री शंभू प्रसाद शर्मा निवासी पटना तमोंली तह0 गुनौर	जनपुरा	1,15	2.00	16.10.07 से 15.10.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
9	श्री चुन्नी लाल पटैल पिता श्री खेम जी भाई निवासी कटनी	सिगडा	107/1	1.768	15.12.07 से 24.12.17	पवई	फशीं पत्थर	उत्खनि पटटा	संचालित
	अध्यक्ष पिछडा वर्ग पत्थर खदान श्रमिक मजदूर सह०स०मार्या० सो० आगरा मोह० पन्ना	कुठरहिया	224	2.50	17.08.08 से 16.08.18	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
						1000000			
	श्री रामगोपाल पिता पोहूराम जैसवांनी निवासी कटनी	चौपरा	167	1.500	21.12.08 से 20.12.18	पवई	फर्सी पत्थर	उत्खनि पट्टा	संचालित
	श्री धुव कुमार पिता पन्ना लाल चौरसिया निवासी मोहन्द्रा पवई जिला पन्ना	कुटरहिया	293	2.00	5.01.09 से 04.1.19	पवई	फर्सी पत्थर	उत्खिन पट्टा	संचालित
	श्री अध्यक्ष आदिवासी वनोपज सहकारी समि० मर्या० बरौहा जिला पन्ना	कैमुरिया	236, 246	2.00	03.02.2009 से 02.02.19	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	अध्यक्ष छुई मिट्टी खदान उद्योग सह0स0 जसवन्तपुरा जिला पन्ना राजेन्द्र कुमार पिता बावू लाल जैन निवासी सलेहा जिला पन्ना	मोहिखया सोनई	404	0.60	03.04.09 से 02.04.19	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	श्री श्याम लाल अहिरवारिपता श्री पसुआ चमार निवासी पडिरया जिला पन्ना	सानइ तालगाँव	15 175 / 1	0.75	03.04.09 社 02.04.19 15.05.09 社 31.04.19	पवर्ड पवर्ड	फर्सी पत्थर फर्सी पत्थर	उत्खनि पट्टा उत्खनि पट्टा	संचालित संचालित
	श्री राजेन्द्र कुमार पटेल निवासी नन्ही पवई	सालगाव	344	2.00	15.05.09 H 31.04.19	पवर्ड पवर्ड	फशी पत्थर	उत्खान पट्टा	संचालित
	श्री रमेश कुमार गीतम पिता श्री शिवनारयण गौतम निवासी कटनी	देवरी	68	1.00	14.07.09 H 13.07.19 24.11.06 社 23.11.16	पवर्ड पवर्ड	फशी पत्थर	उत्खनि पट्टा	संचालित
	श्री संजय लटौरिया पिता श्री बाबूलाल लटौरिया निवासी पवई जिला पन्ना	मोहिडिया	136,137,138	1.00	09.10.06 社 08.10.16	पवर्ड	फशी पत्थर	उत्खनि पट्टा	सिथिल
	श्री ओम प्रकाश गर्ग पिता श्री रामेश्वर प्रसाद गर्ग निवासी सथनिया तह0 गुनौर पन्ना	जैतुपुरा	41	1.935	05.10.06 형 04.10.16	पवर्ड	फशी पत्थर	उत्खनि पटटा	संचालित
	THE PROOF SECRETARY CONTROL OF THE PROOF OF								5.00,000,000
	श्री रमेश कुमार गौतम पिता श्री शिवनारायण गौतम निवासी कटनी	देवरी	68	1.00	24.1.06 से 23.1.16	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	श्री बालगोविन्द्र कोरी पिता श्री भइया लाल कोरी निवासी पन्ना जिला पन्ना	कुटमी	279	1.00	03.04.07 से 02.04.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
23	श्री चॉद मोहम्मद पिता श्री फजल मो० निवासी सलेहा तहसील गुनौर जिला पन्ना	बछौन	51/1	1.500	04.07.07 社 03.07.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
24	श्री कुंज विहारी पिता कृष्ण मोहन पाण्डेय निवासी कठवरिया जिला पन्ना	जैतूपुरा	40	1.00	07.1.07 से 06.1.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
25	श्री अजय देव बुन्देला पिता श्री अरूणपाल सिंह बुन्देला निवासी शिकारपुरा पवई	कैमुरिया	242/2	0.70	19.11.07 前 18.1.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
- 00	श्री शंकर आदिवासी पिता श्री परदेशी आदिवासी निवासी महेवा जिला पन्ना		126	0.41					
	श्री सुनील कुमार पाण्डे पिता श्री कृष्ण कुमार पाण्डे निवासी कठवरिया जिला पन्ना	तालगॉव जनपुरा		1.00	19.12.07 社 18.12.17 30.11.07 社 29.11.17.	पवई पवर्ड	फर्शी पत्थर फर्शी पत्थर	उत्खनि पट्टा उत्खनि पट्टा	संचालित संचालित
- "	त्रा युनार यान्छ ।यसा त्रा कृष्ण युनार यान्छ ।नयासा कठवारया ।जला यन्ना	जानपुरा	1/1	1.00	30.11.07 4 29.11.17.	445	फशा पत्थर	उत्खान पट्टा	संचालत
28	श्री देवेन्द्र सिंह पिता श्री इन्द्रवीर सिंह परमार निवासी करहिया तहसील गुनौर पन्ना	कुटमी	217/1	1.00	31.12.07 से 30.12.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
29	श्रीमति रूपिन्दर कौर पत्नी श्री देवेन्दर सिंह कौर निवासी मुटमुरू तह0 गुनौर पन्ना	जैतुपुरा	45	1.25	31.01.08 से 30.01.18	पवई	फर्शी पत्थर	उत्खिन पट्टा	संचालित
30	श्री राम मनोहर गाँड पिता श्री छंगा गाँड निवाशी जसवंतपुरा तहसील अमानगंज	कोड़ा	19, 20	0.60	31.01.08 से 30.01.18	पवर्इ	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	हुँ० संयोगिता पाण्डे पिता श्री मदन मोहन पाण्डे निवासी सलेहा तहसील गुनौर	घुटेडी	352,353,354	1.16	1.02.08 से 10.02.18	पवई	फर्शी पत्थर	उल्खनि पट्टा	संचालित
32	श्री पंचम सिंह पिता श्री अम्रत लाल यादव निवासी मोहङिया तहसील पवई पन्ना	मोहङिया	140	0.75	08.04.08 前 07.04.18	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
33	भी सुरेन्द्र सिंह पिता श्री भामा साह निवासी जसवंतपुरा तहसील अमानगंज पन्ना	नारदपुर ·	4/2	0.75	17.03.08 से 16.03.18	पवई .	फर्शी पत्थर	उत्खिन पट्टा	संचालित
	भीमति पिंकी बागरी पत्नी यादवेन्द्र सिंह निवासी पवई जिला पन्ना	झांझर	344	2.00	20.03.08 से 19.03.18	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	भीमति नीलेश पाण्डे पत्नी धीरेन्द्र पाण्डे निवासी पन्ना	ਬੁਟੇਡੀ	363,364,365	1.00	18.03.08 से 17.03.18	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	भी अवध विहारी पिता श्री भूरे राम शर्मा नि० सलेहा जिला पन्ना	<u> </u>	220, 222, 223	0.60	18.03.08 से 17.03.18	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	री रावेन्द्र सिंह पिता श्री इन्द्रभान सिंह निवासी कटनी	लिलवार	13	1.30	01.04.08 से 31.03.18	पवई	फर्शी पत्थर	उत्खनि पद्टा	संचालित
	री पहाडू आदिवासी पिता श्री मनुआ आदिवासी लमकुस तहसील गुनौर जिला पन्ना	ककरी कछार	25/1	0.50	19.05.08 से 18.05.18	पवर्ड	फर्शी पत्थर	उत्खनि पट्टा	संचालित
	री रमाकान्त गौतम पिता श्री बीर अभिमन्यू निवासी कटनी	चीपारा	203	1.49	22.02.10 से 21.02.20	पवई	फर्शी पत्थर	उत्खिन पट्टा	संचालित
40 8	गे लक्ष्मण प्रसाद पाठक पिता श्री शालेग राम निवासी गौरा	कोड़ा	18	1.00	02.11.2009 से 01.11.19	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित

41 श्री मदन मोहन पांडे पिता श्री बद्री प्रसाद पांडे निवासी कृठवरिया तहसील गुनौर	बीजादोह खिलसारी	101	1.20	24.04.07 社 23.04.17	पवई	फर्सी पत्थर	उत्खनि पटटा	संचालित
		100000			1	1	ारवान नव्या	, daned
42 श्री अनन्त मसुरहा पिता श्री हरगोविन्द मसुरहा निवासी टिकरिया	विसानी	94, 95	2.00	31.07.09 से 30.07.19	शाहनगर	फर्शी पत्थर	उत्खिन पट्टा	संचालित
43 श्री पुष्पेन्द्र सिहं निवासी कटनी	कैमुरिया	86	1.00	18.12.2009 से 17.12.19	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
44 श्री लखुआ अहिरवार निवासी झरकुआ	कुटमी	277,278,279	3.88	27.02.2007 से 26.02.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
45 श्री मदन मोहन पाण्डे	बीजादेह खिलसारी	39/1	1.200	15.03.2007 से 14.03.17	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
46 श्री कल्लू शाह निवासी सिमरिया	कुठरहिया	206	4.00	29.11.2009 से 28.11.19	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
47 श्री शंकर सिंहं निवासी कटरा	ककरी कछार '	93	2.00	01.12.2008 से 30.01.18	पवई *	फर्शी पत्थर	उत्खनि पट्टा	संचालित
48 श्रीमित आराधना सिहं पत्नि श्री हाकम सिहं निवासी धोर्रा खुर्द तहसील अमानगंज जिला पन्ना	बछौन	30	1.00	29.12.2014 सें 28.12.24	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
49 श्री गंदर्भ सिहं पिता श्री रघुबीर सिहं निवासी बराहो तहसील पवई जिला पन्ना	इटाय	969	0.80	24.11.09 से 23.11.19	पवई	फर्शी पत्थर	उत्खनि पटटा	संचालित
50 श्रीमती सीमा परौहा पत्नि स्व0 श्री कृष्ण कुमार परौहा निवासी लमतरा शाहनगर	घोना	40/2	2.00	23.02.09 से 22.02.19	शाहनगर	फर्शी पत्थर	उत्खनि पट्टा	संचालित
51 श्री बीरेन्द्र सिष्ठं पिता श्री भामाशाह सिष्ठं निवासी जसवंतपुरा तहसील अमानगंज जिला पन्ना	कोठी	155	1.40	01.11.15 से 31.10.2025	पवई	फर्शी पत्थर	उत्खनि पट्टा	संचालित
52 श्री भानूराजा पिता श्री कम्मोद सिंह नि0 खिरवा पो0 पिपरवाह पन्ना	कुठरहिया	281/1	2.00	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित
53 श्री रितेश पांडे पिता श्री रामनारायण पांडे निवासी मोहन्द्रा जिला पन्ना	कुठरहिया	278/1	2.00	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित
54 श्री राजिकशोर पांडे पिता श्री शंकर पांडे नि0 ककरहटी जिला पन्ना म0प्र0	बछौन	14	1.600	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित
55 श्री ज्ञानेन्द्र सिंह पिता श्री दीवानजीत सिंह नि0 सलेहा तहसील गुनौर जिला पन्ना	बछौन	19	3.00	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित .
56 श्री सुखदेव सिंह पिता श्री गोविन्द सिंह नि० लमकुश तहसील गुनौर पन्ना म०प्र०	बछौन	4	1.500	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित
5/ श्री वालेन्द्र सिंह पिता श्री रामनारायण सिंह नि० पवई जिला पन्ना म०प्र०	बछौन	51/1	1.90	01.04.2011 से 31.03.16	पव ई	फर्शी पत्थर	घोष विकय	संचालित
58 श्री राजेन्द्र तिवारी पिता श्री जागेश्वरदीन तिवार नि0 घटारी	बछौन	19	1.00	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित
59 श्री रमाकान्त चौरसिया पिता श्री सरमन चोरसिया नि0 पटना तमोली जिला पन्ना	बछौन	19	2.00	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित
60 श्री रामशिरोमणि मिश्रा पिता श्री कृष्णानंन्द मिश्रा नि० बन्धौरा तह० गुनौर पन्ना म०प्र०	बीजादेह खिलसारी	250 / 11	1.480	01.04.2011 से 31.03.16	पवई	फर्शी पत्थर	घोष विकय	संचालित
61 श्री सुखसाहब सिष्ठं निवासी कुदरा	मलघन	49,81	2.00	25.08.2014 से 31.03.17	शाहनगर	फर्शी पत्थर	घोष विकय	संचालित
62 श्री केशरी सिहं पिता श्री बीरेन्द्र सिहं निवासी अमकुई तहसील नागौद जिला सतना	बीजादेह खिलसारी	42/1	1.00	28.10.2015 से 31.03.20	पवई	फर्शी पत्थर	घोष विक्य	संचालित
63 श्री राजेश कुमार द्विवेदी पिता श्री जगप्रसाद द्विवेदी निवासी बेनीसागर मोहल्ला पन्ना	कोलकरहिया	1287	2.84	23.10.2010 से 22.10.20	पवई	केशर गिटटी	उत्खनि पट्टा	संचालित
64 मैं। डायमण्ड स्टोन केशर प्रों। श्रीकान्त दीक्षित निवासी टिकुरिया मोहल्ला पन्ना	ं बिलघाडी	3361,3362	1.00	25.09.2008 से 24.09.18	गुनौर	केशर गिट्टी	उत्खनि पटटा	संचालित
65 मैं। जुगल किशोर जी स्टोन कशेर प्रे10 श्रीमित सुमन पाठक	सिली	228/1束,228/1束, 228/4	3.563	08.06.2007 社 07.06.17	गुनौर	केशर गिट्टी	उत्खनि पट्टा	संचालित
66 श्री पुष्पराज सिहं निवासी कोडर	बिल्हा	2567,2568	1.30	18.08.2012 से 17.08.17	गुनौर	केशर गिट्टी	उत्खनि पटटा	संचालित
67 श्री दुश्यंत सिंह पिता श्री जगत प्रताप सिंह निवासी सुगरहा जिला पन्ना	लुहरगॉव	386	0.65	18.07.06 से 17.07.16	गुनौर	क्रेशर गिट्टी	उत्खनि पट्टा	संचालित
68 में0 जुगल किशोर स्टोन केशर प्रो0 सुमन पाठक निवासी पन्ना	सिली	228/1雨, 228/1雨	3.563	08.06.07 से 07.0617	गुनौर	क्रेशर गिट्टी	उत्खनि पट्टा	संचालित
69 श्री मित नंदिता सिंह पित श्री वृजेन्द्र सिंह निवासी ग्राम इटौरी तहसील पवई	टाई	995/6	1.85	24.08.07 से 23.08.17	गुनौर	क्रेशर गिट्टी	उत्खनि पट्टा	संचालित
70 श्री शैलेश नगायच पिता श्री जगदीश प्रसाद निवासी पवई जिला पन्ना	टाई	10, 251, 059	1.39	12.07.07 社 1.07.17	गुनौर	क्रेशर गिट्टी	उत्खनि पट्टा	संचालित
71 मैं। जुगल किशोर एण्ड सप्लायर प्रों। श्री केंंग्पी। सिंहं	बीरा नं0-1	1	7.00	06.11.2015 से 05.11.20	अजयगढ	रेत	घोष विकय	संचालित
72 श्री देवेन्द्र शर्मा निवासी ग्वालियर	भीना	1	11.00	24.11.15 3 31.03.20	अस्तरागर	रेत		
'2 श्री देवेन्द्र शर्मा निवासी ग्वालियर '3 मैं0 ए एण्ड ए इन्टर प्राईजेज प्रोo शिववंशल होसंगाबाद			11.00	24.11.15 社 31.03.20	अजयगढ	रेत	घोष विकय	संचालित
	भीना गूढा उडला	1 24 605	5.10 5.50	24.11.15 ゼ 31.03.20 01.12.2015 ゼ 31.03.20 01.12.2015 ゼ 31.03.20	अजयगढ पवई पवई	रेत रेत रेत	घोष विकय घोष विकय घोष विकय	संचालत संचालित संचालित

CHAPTER – IV

DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS

Mining Section

Year	Royalty
2012-13	5,68,45,407
2013-14	14,99,17,316
2014-15	10,95,22,769

Details of Royalty:

Diamond office-

S.No.	Years	Royalty of Shallow Mines		Total
		NMDC	Diamond Royalty	
1.	2012-13	20077355	1070942	21148297
2.	2013-14	52961667	357999	83319666
3.	2014-15	80961908	1337811	82299719

CHAPTER – V

DETAIL OF PRODUCTION OF SAND OR BAJARI OR MINOR MINERAL IN LAST THREE YEARS

Financical	Sand	Gitti	Murum	Flagston	Granite	Boulder
Year	(Cu.mts)	(Cu.mts)	(Cu.mts)	(Cu.mts)	(Cu.mts)	(Cu.mts)
2012-13	2160	2700	3500	10000	600	1000
2013-14	276	3500	4500	20000	1100	1500
2014-15	85506	3600	5000	15000	1200	2000

CHAPTER - VI

PROCESS OF DEPOSTION OF SEDIMENTS IN THE RIVERS OF THE DISTRICT

Deposition of sediments by small streams, riverlet, nala, and river are generally controlled by geological set up & structures, Elevation, Rainfall, catchment area, Gradient, Weathering & erosion envolving deposition of sediments, during floods huge amount of sediments, sand, Bajiri, etc. deposit at meanders, islands, deltas, culverts, etc.

District lies in the Ganga Drainage System, most of it drains into the Yamuna through the Ken. The north eastern part of the District flows into the Yamuna through the Baghain. A very small area around Devendranagar flows to the east and feeds the Ganga through the Satna and the Tons. The drainge is an established one, developed on a dendritic pattern.

All streams of the disrtict are seasonal and turbulent during the rains, in summer, they are dry or mere threads between the wide sandy bed. The channels are deep in the hilly areas.

The whole district is available with a good quantity of sand, as the local river passes majorily through Vidhyan formations.

The Ken river flows for 40km in the north and receives water from stream of Aloni, Sumidra and Gurne on the right bank, again on entering upper plateau it turns west and is joined by Patne a tributory from southern hills, then it takes a north-westerly trend and is met by sonar river on left bank.

Sonar is fed by Bearma from western side and flows about 16km.

Mirhasan river receives water and sediments from the southern slopes of the Panna ranges. It is very narrow along the Panna ranges and falls near Khami and Patharpur village in a succession of 48mts & 45mts respectively. Two small dams at Gangau and another at Bariarpur have been worked out for irrigation purpose.

Sonar :-

It comes from lower trappean hills in the south-west of sagar distt. The total length is about 187km while flows 16 km in Panna district forming western boundary and finally joins ken river.

Bearma:-

A comes from NE hills of kaimur range of Sagar district and is narrow and deep channel, the fall is 1.1 mts per km, therefore its velocity in floods is very high, its runs for about 33km marking west boundary and meets sonar river.

Baghain :-

It runs for 15km and flows is NE direction and rises above Ukri and meets the Yamuna. The sediments are poor & scanty.

Ranj:-

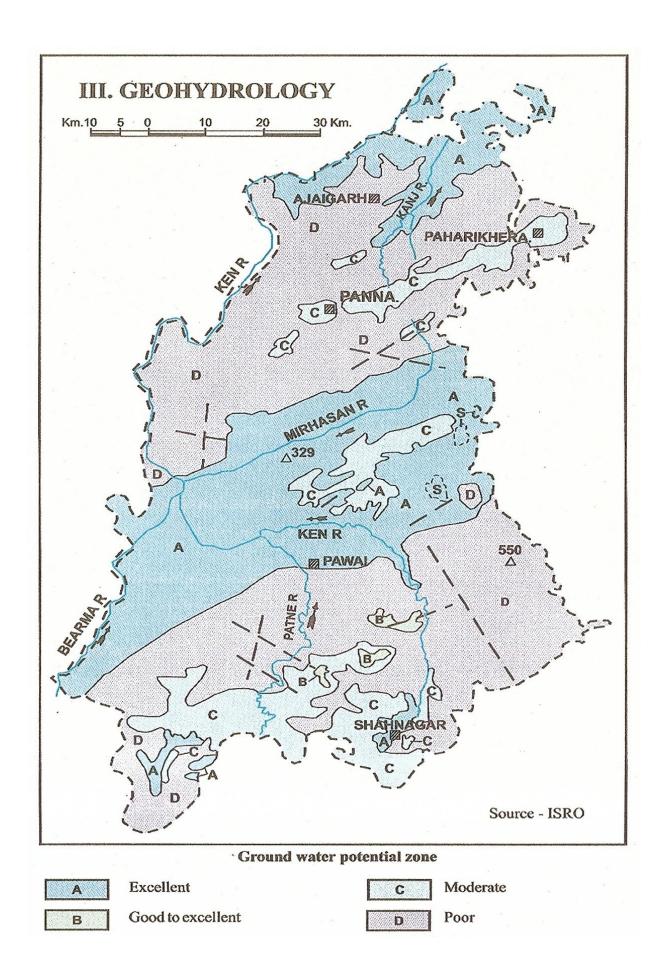
It runs for 5km north of Panna and flows through western range meeting Baghain in U.P. Sediments are poor and scanty.

Satna:-

It flows from hills of Rampura village in SE direction for 10km. sediments are poor & scanty. It meets tons in satna district.

Kurser:-

It comes from eastern extremity of Kaimour hills and drains a small area and finally meets tons.

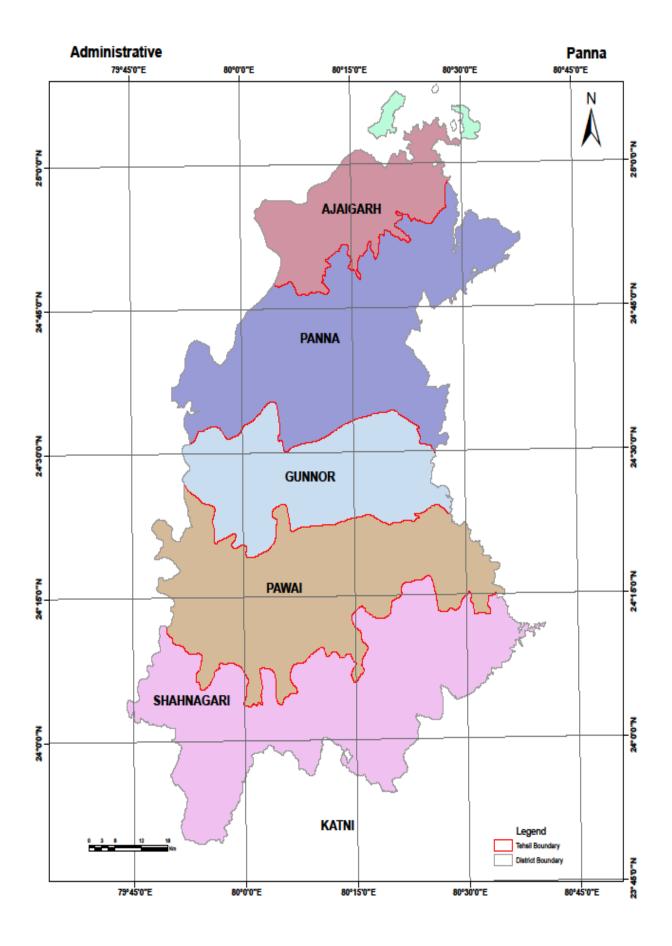


CHAPTER-VII

GENERAL PROFILE OF THE DISTRICT

Panna is the northern most part of sagar division.

District is divided into 09 tehsil and 05 blocks. viz, Panna, Gunnor, Pawai, Shahnagar, Ajaygarh, Raipura, Amanganj, Devendranagar and Simariya and blocks are Panna, Gunnor, Pawai, Shahnagar, Ajaygarh. The population of male is 1016520 and femalre are 483040. Literacy percentage is 80.6 in urban and 65.9 in rural areas. Scheduled caste population is 20.5 while schedule tribe 16.8. Irrigated area is 32.7 of the total gross cropped area, number of fair price shop in urban is 20 and in rural is 399, electrified village percetage is 88.90 as per census till 2010-2011. The district is well connected by road with tehsils and blocks.



CHAPTER-VIII

LAND UTILIZATION PATTERN IN THE DISTRICT: FOREST, AGRICULTURE, HORTICULTURE, MINING ETC

Agriculture:

Total land is 702924 hectares in which 57107 hectares is cultivated i.e.12.31% percentage of land is used for wheat, paddy etc. Crops are being irrigated by canals and tube wells.

Forests:-

The forests cover an area of 246951 hectares i.e. 35% of 702924 hectares land. The forests is divided into two divisions the north and south. North division is developed well on deep soil on deccan trap, shales, granite, sandstone and laterite. They are best developed along the ravines of ken and Bearma in the western part of the district. The quality decreases gradually with less favourable environments towards the east. Also the forests of the South Panna division exhibit a lesser quality of forest then those of the North Division in their corresponding longitudinal sections. Thus, the Teak forests stand in three groups of different qualities. The western part of Hinota range and Madla and Ajaigarh Ranges of North division have the richest teak forests classed as quality III. Here the proportion of teak reaches up to 70 percent of the growing stock, corresponding to this are the patches of teak forests on alluvium in the western parts of Amanganj, Mohendra and Raipura Ranges of South Panna division.

Moving east, one finds a gradual change in the quality, class and composition of forest. In the eastern part of Ajaigrah, Madla and Hinota ranges and western parts of Panna and Bisramganj Ranges., covering an area of 9,500 hectares, the quality of teak forests comes down to IV-a with the percentage of the species ranging between 40 to 60 in the tree stock. A large area of

Amanganj, Mohendra and Raipura ranges (south division) also fall in this category.

Further east in eastern parts of Ajaigarh and Bisrampur Ranges and adjoining parts of Dharampur range in the north, and eastern part of amanganj, central parts of Mohendra and Raipura ranges and some patches in all parts of south panna division carry IV-b quality of teak forest where the percentage of teak varies between 20 to 30.

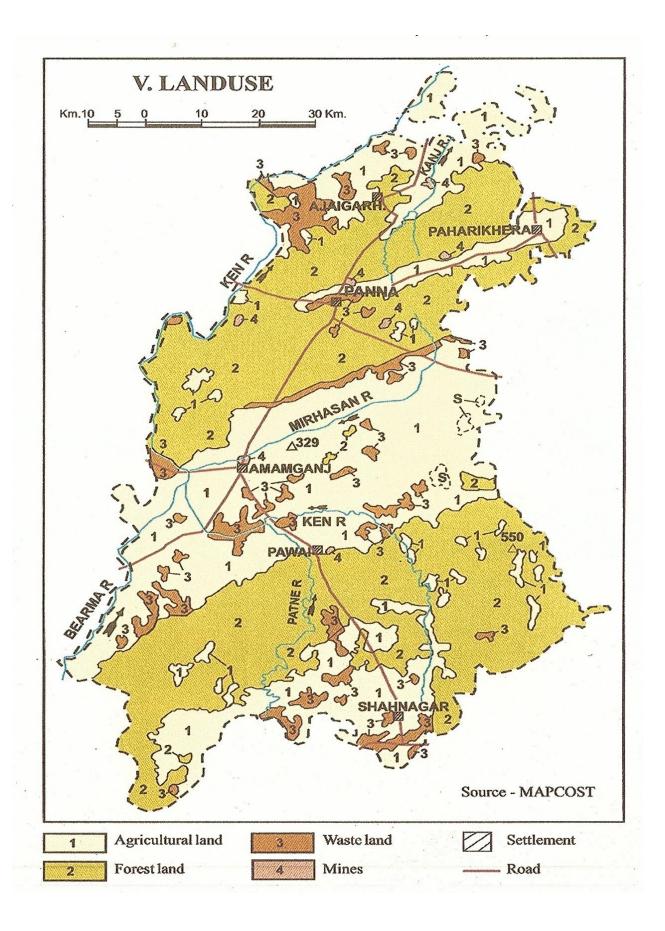
East of the Teak forests, the proportion of teak decreases as compared to other species but the quality of the corp increases due to higher water retaining capacity of the soil. The miscellaneous species get proper opportunity to grow upto class III on deep soil. The best of Mixed forests occur in patches and account for 2720 hectares largely in North Panna division, and in Kalda Pathar of south division.

The general span of Mixed forests east of the teak belt bears IV-a in central parts of Dharampur and eastern parts of Bishramganj and Panna Ranges. The area under mixed forests of IV-a quality is 25,000 hectares in North Division. They also occur in the Pawai and Shahnagar Ranges of South Division.

An area of 33,001 hectares in Devendrangar and Dharampur Ranges bear Class IV-b quality forests. In the south division this corresponds to the hilly areas of kalda, and eastern parts of Shahnagar and Pawai Ranges.

Mining:-

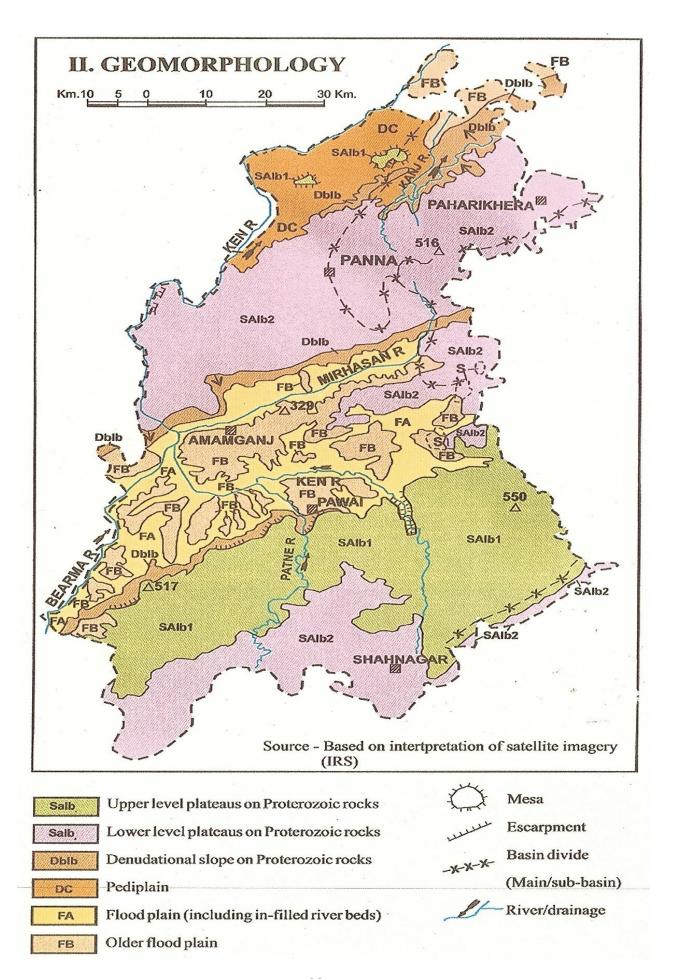
The district is famous for its gem quality diamonds, limestone, flagstone, granite, sand, gitti, small and scanty pockets of clay, laterite, murum and shale are observed all around district covering an area of 66283 hect. out of which major mineral is 132 hect. and minor minerals is 524.90 hect. mining percentage of land use is 0.99%.



CHAPTER-IX

PHYSIOGRAPHY OF THE DISTRICT

The district forms part of vindhyachal ranges in the north followed by bundelkhand upland in the south. The vindhyachal range consists of two linear step like table lands trending ENE-WSW separated by an uneven narrow valley having an average elevation of 440mtr above msl. The Bundelkhand upland having an average elevation of 170mtr above msl, is a peneplained surface dotted with mesa and linear ridges. Ken river with its tributaries Ranj and Baghain control the drainage of Panna District. Draniage pattern is dendritic type.



CHAPTER-X

RAINFALL MONTHWISE

Year 2013-14

S.No.	Month's Name	Rainfall Till Month	Rainfall During The
		Ending	Month
1	June	1743.9	1743.9
2	July	3653.1	1909.2
3	August	4654.8, 6513.9	4604.7
4	September	1995.9, 6650.7	2046
5	October	5512.1, 7508.0	546.2
6	November	1995.9, 7508.0	2046
7	December	7508.07	5462
8	January	7826.6	2046
9	February	8159.6	6113.6
10	March	8206.2	2092.6
11	April	820.2	6113.6
12	May	8210.2	8210.2

Note :- 1 June 2013 to 31 May 2014

Year 2014-15

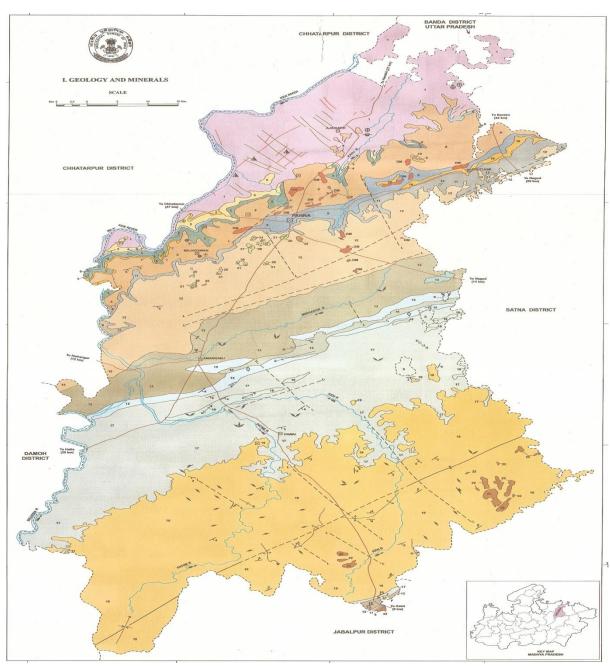
S.No.	Month's Name	Rainfall Till Month	Rainfall During The	
		Ending	Month	
1	June	265.2	265.2	
2	July	1505.9	1240.7	
3	August	2796.5	1555.8	
4	September	3303.01	1747.21	
5	October	3509.5	1746.29	
6	November	3509.5	1763.21	
7	December	3570.1	1806.89	
8	January	3744.0	1937.11	
9	February	3778.6	1841.49	
10	March	4172.0	2330.5	
11	April	4324.4	1993.9	
12	May	4329.4		

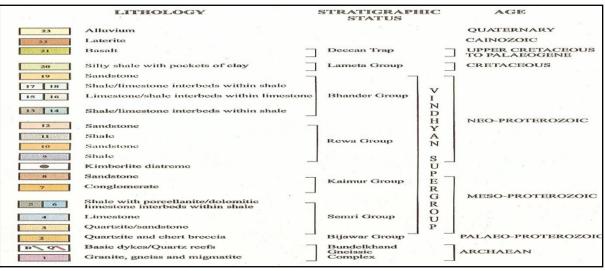
CHAPTER-XI

GEOLOGY AND MINERAL WEALTH

General geology of the area is as under:-

Lithology	Statgraphic Status	Age	
Alluvium Laterite		Quaternary Canoizoic	
Basalt	Deccantrap	Upper	
		cretaceous palaezoic	to
Silty shale with pockets of clay	Lameta Group	Cretaceous	
Sandstone			
Shale/Limestone with interbads within shale			
Limestone/shale interbeds within limestone	Bhander Group	< 7	
Shale/Limestone interbeds within shale		VINDHYA	
Sandstone		~	Proterozoic
Shale	Rewa Group	Z	
Sandstone Shale	-	S	
Kimberlite diatremes			
Sandstone	Kaimour Group	T	
Conglomerates		U P E GROPU	
Shale with porcellanite		Q _P	
dolomitic limestone, interbeds with shale	Semri Group	C	
Limestone	Schur Group		
Quartzitic sandstone			
Quartizite and Chert Breecia	Bijawar Group	Paleo Proterozoic	
Basic Dykes & Quartz reefs.	Door dellahan d		
Granite, gneisses & migmatities	Bundelkhand Gneissic Complex	Archaeans	;





Granite Gneisses and Migmatites :-

The oldest rock in the district belongs to the Bundelkhand granite, under which are grouped suits of various types of granite, gneisses, migmatites, pegmatite and intrusive Quartz reefs, dolerite and other dykes. They occupy the low lying area to the north of Panna range. These rocks were subjected to erosion for a long period and developed highly uneven and irregular surfaces. In a very small area phyllites and quartz schist which are tentatively referred to the Dharwars.

Bundelkhand granite form a vast outcrop in the area and have been considered to be of meta somatic origin. The granites are intruded by quartz reefs which form prominent linear hills. The basic dikes which cut through the granites are roughly at right angles to the reefs.

Granites are generally of three types

- Greyish white, fine to medium grained leucocratic.
- Grey to dark-grey, medium to coarse grained melanocratic.
- Pink porphyritic granites.
- Greyish white, fine to medium grained in texture and is composed of grey white feldspars and quartz. It is deficient in ferro magnesian minerals and highly weathered and never seen occurring in higher grounds.
- (2) The grey to dark grey medium to coarse grained is sporadic in nature and is seen exposed in the area north of Pandwafall. The quartz and grey feldspars are the main constituent and is closely jointed, sheared and at places fairly weathered.
- (3) The pink porphyritic granite consists of large crystals of potash feldspars together with quartz and ferromagnesian minerals in

subordinate quantity. The rock is closely jointed and sheared. The shear zones are generally followed by both acid and basic intrusives. The rock is hard and massive and is more resistant to weathering and forms the hills and mounds-bouldary in nature.

The dykes cutting across the granites show that they are of gabbroic, doleritic and ultra-basic composition. Some metasediments exposed in a narrow outcrop in the Pandwafall gorge comprising quartz-muscovite-schists, schistose, phyllites are found associated with granites. They are referred to as Dharwars.

Bijawar Group :-

Few exposures of some sandstone are found in isolation in the Panna district. These overlying occurrences described here appear to have been exposed due to erosion of overlying Vindhyan rocks. The Bijawar consists of grey coloured, hard, massive, thickly bedded sandstone. It is traversed by quartz veins. Thin strips between granite and semri sandstone near Pathar Chauki SE of Baharganj. At Baharganj characteristic Bijawar conglomerate consisting of bright-red, jasper, dark-red, haematitic jasper-rock, black-quartzite, yellow, siliceous pebbles, hornsstone and quartz vein in a coarse siliceous matrix. Pegmatite beds, quartzites, ferromagnesian sandstone, cherty limestone and siliceous hornstone.

Basic dikes, ash-beds and lava flows Bijawar jasper breecia.

Basic dikes of Bijawar: They cut granite as well as quartz reefs common in north of diamond fields between longitude $80^{\circ} - 80^{\circ}30'$. They are seen exposed near Bhajbai, Ajaygarh, nala in Bisramganj ghat sections. They are fine to coarse grained, greenish in colour, plagioclase and augite with less

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quartz, texture is mostly granophyric to ophitic in nature. Magnetite is common.

Breecia: They lie in streams between Bharganj and Dibar. Jasper is common which is bright-red, dark-red haematitic, quartzite, yellow siliceous rocks, hornblende and milky quartz. They are set is coarse siliceous ground mass.

Vindhyan Super Group

Semri Group :-

The rock of the semri group comprise Pandwafall sandstone and Kajrahat limstone Pandwafall sandstone is generally light grey to dirty-white in colour, medium – grained and thickly bedded, and grades downward into a glauconitic sandstone horizon. The sandstone below the glauconitic sandstone are somewhat calcareous. The quartz grains of sandstone are generally well – rounded. The Pandwafall sandstone is directly overlain by Ken limestone along the Baghain river. The limestone are made of pisolites and solities of calcareous and cherty material. The limestone is somewhat impersistent. Palkawan shale is the most persistent and prominent formation of the semri group. The formation of different types of sandy and argillaceous shale and porcellanite bands alongwith breecia and breeciated chert, generally light grey to green in colour, soft and mostly fragmented. The porcellanite shales and porcellanite generally occur in the lower part of the formation. The shales are almost blad near Pipratola and contain pyrite nodules.

Kaimour Group :-

It is represented by Pipratola conglomerate and Dhandraul Quartizite. Pipratola conglomerate occurs only in a small part of the area and assumes a maximum thickness of about 15m. The main constituents of this conglomerate are subangular to rounded pebbles of variously coloured jaspers, with quartz sandstone and haematite occurring in subordinate amounts, with siliceous matrix. It abruptly thins out when followed eastward. Baghain sandstone is massive, hard, compact, thick bedded and generally fine-grained. The colour is mostly white. Individual bed attains a thickness of 1.25mtr. The quartz grains seen to have been waded together by authigenic growth of silica. The lower part of this formation at some places consists of some what laminated arkosic to sub-arkosic sandstone.

Rewa Group :-

It is divided into Paisuni formation Panna shales, Itwah sandstone Jhirri shales and Gahadra sandstone, above the slightly eroded surface of the Baghain sandstone. A succession of beds of flaggy limestone, shales and thin bedded glauconitic sandstone and has been termed as Paisuni formation.

Panna shales are composed mainly of shales with inter-bedded strata of siltstones and sandstone. The shales are generally of green colour and on the surface they looks red due to oxidation. The shales are quite soft, and highly fragmented. The intercalated siltstones are generally composed of fine-grained quartz. The sandstone intercalations are very thin and appear to some sort of sub-grey wacks.

Itwah sandstone, very much limited in thickness, occurs sandwitched between the underlying Panna shales and overlying Jhirri shales. Since the sandstone is very hard, and massive, wherever it crops out it trends to make a platform. This formation pinches out rapidly westwards. The sandstone in the upper part are thin-bedded, pinkish to purplish, flaggy quartz arenite with thin bands of calcite and ferroginous matter. Thin bands of diamond bearing conglomerate are found at places at several levels in the formation. The lower bed of the Itwah sandstone are generally chloritic.

Itwah sandstone are overlain by Jhirri shales which are identical in lithology with those of Panna shales. Discontinous Patches of diamond bearing conglomerate occur at the base of Jhirri shales at Panna. Sometimes it is seen resting directly on the top of Dhandraul quartzite. A notable feature is that this conglomerate is found at the base of the Jhirri shales in the areas where Panna shales are not present.

Gahadra sandstone is massive, fine grained, generally white in colour on freshly broken surface but purplish to brownish on the weathered surface. The diamond bearing conglomerate associated with the Gahadra sandstone occur towards the top of this formation.

Lameta – They are exposed south west of Panna near Sukuha, Manki, Kherband.

Deccan Trap – On the top of lameta beds they occur as outlier near Buxwaho. Laterite occur on top of lameta cappings are found over the sandstone and shale of Kaimour, Rewa and Bhander out crops. Laterite is purple to redish brown in colour and massive. They occur as spongy, vesicular & pisiolitic form near Manki, Jardobha etc.

Calc-tuff – They are seen along Gorges of Kaimasan river near Barour, Kuchha, Waterfall near Pathak Chauki.

Mineral Economics

Granite :-

Granite and other dimensional stones have acquired enhanced commercial importance in the past about a decades time. This has resulted in the demand of Indian granite in the International market, the boom in civil construction industry in Europe, Gulf, and to a large extent in communist countries. Certain administrative policy decisions brought the granite of M.P. to the lime light as the state encompasses large tracts of variety of Granites. The red pink granite of Bundelkhand region, at present forms a premium item for export.

The Bundelkhand massive of Archaean age is closely related to the Vindhyan formation. The granite deposit of the area is mainly sheeted to bouldery in nature as seen near villages Harseni, Pista etc.

The rock is very hard, compact in nature and highly resistant to weathering and erosion, topography is rugged with high to very high relief, large batholiths are seen exposed.

Localities are Pista $24^058'-80^018'$, Harseni village $24^058'30"-80^017'$, Harbanspur village $24^058'40"-80^019'$, Ajaygarh $24^053'40"-80^016'$, Basaura $24^052'-80^019'$, Tikaranpur $24^052'40"-80^019'45"$, Pratapur $24^052'35"-80^016'40"$, Tirauni $24^052'30"-80^016'30"$, Singhpur village $24^053'55"-80^017'30"$

Limestone:-

Limestone extends upto a total length of about 45km in length 1 to 1.5 km in width in toposheet number 63/D6, 7, 3 to 54/P15 from east to west on 1:50,000 scale, between village Bhilsai to east of river Bearmar on the west, and then further continuing in Damoh district.

On seeing megascopically the limestone seems to be of cement grade to S.M.S. grade, but at places the limestone is highly siliceous. The limestone is striking in NNE-SSW directions with a very low S-Easterly dip. The overburdern in the area range from 0.00m to as much as 15.00mtr. Limestone of the region shows frequent variation in quality and thickness both lateraly and vertically. At places high grade Limestone beds are overlain & also interlayered with inferior grade limestione. Limestone is well bedded, interbedding of high grade limestone, shale and impure siliceous limestone is very common in the area near village Banjarha, jhiria, Lohargawan, Tinduhai etc.

Shale

Shale were encountered in Semri, Kaimour, Rewa and Bhander group of rocks. Shale is used by the local people/road contractors for building and road construction. The thickness of these beds is very good also shale associated with sandstones beds make them mineable for flagstone quarries.

Sandstone

Sandstones are exposed in Kaimour, Rewa and Bhander groups. Sandstone of Kaimour group are fine-grained, hard, massive and thickly bedded. They are striking NE-SW with a low angle dip of 5° to 6° SE. Here sandstone is being mined at different villages like Khajuri, Baror, Manor, Dalhan Chowki. They are dirty white to off-whicte in colour with little overburden 1m to1.5m these sandstone could find a good use for silica sand manufacturing, after crushing & washing process.

Sandstone of Rewa group are hard, with interbeds of shale, siltstone and limestone. Exposures are very scanty, whereas Upper-Rewa group sandstone are reddish brown, hard, massive coarse grained, thick bedded with shale interbed. Few flagestone quarries exist in and around village Devendranagar, Rajapur, Baror.

Sandstone of Bhander group are purple to reddish brown, fine-grained thick to massive trending NE-SW with a low angle dip of 4⁰ SE. These sandstone are highly jointed, with two set of joint planes i.e., NE-SW and NW-SE, which make them easily mineable for flagstone.

Diamond

The 80km long and 4-5km wide ENE-WSW to NE-SW trending Panna Daimond Belt. The Diamond belt occurs on the Northen fringes of Vindhyan Plateau in Panna and adjoining district of M.P. Diamond occur in recent gravels conglomeratic horizons in the Vindhyan Super Group sediments and in kimberlite/lamproite pipes intrusive into the above sediments. Even lateritic caps over sandstone are diamond bearing. The diamond are mostly of gem quality and off colour.

The western part of the diamond belt is in the Panna National Park and is not available for exploration.

Diamond is in the Kimberlite pipes or other forms of ultrabasic intrusives. Diamond pipes are vertical or carrot shaped. Diamonds occur as crystals sparsely disseminated in the kimberlite rock, a few occurs in eclogite inclusions.

The pipe decreases in size with depth and the diamond content diminishes.

They also occur in conglomerate intercalated with Panna shales, the lowest bed among the lower Rewah series of Vindhyan formations.

Mostly diamond occurs in three forms in the district,

- (1) In alluvial gravel
- (2) In beds of conglomerates and
- (3) In agglomeratic pipe.

River Gravels

Diamond occurs as traces along the banks of Ken-Ranj-Baghain rivers. The river gravel occurs over a length of 15km and width of 1 to 2km. Diamondiferous gravel is restricted to the basal part of the alluvial pipe and its thickness varies from 30cm to 4m. It comprises boulders and pebbles of sandstone, shale and laterite set in sandy matrix. Ramkheria gravels along the Baghain river have been worked for diamond by NMDC till 1984. Here the diamond resource of 1,15,000 carats with a grade of about 16 carat per hectare were proved by GSI. The gravels indicate higher diamond incidence than the Majgawan mine and percentage of gem quality diamonds is also higher.

The diamondiferous gravel, locally called as "Kakaru" is generally widespread for a length of about 40km with a width of 1 to 2km in NE direction in the district, but is often covered by sand, silt, or clay. The gravels are composed of pebbles of quartzite, jasper, sandstone and vein quartz, derived from the original conglomerate mixed with laterite pebbles occurring in the soil. The thickness may be 0.3 meters. The gravels are occasionally found in the cracks and crevices of the underlying sandstone and therefore has to be exposed by breaking up the superficial sandstone bed. The diamondiferous conglomerate bed locally known as "Muddha" is found in two horizons, one occupying a position between the Kaimour sandstone and the Jhirri shales and the other in the upper Rewa sandstone. The Jhirri

conglomerate is very hard and tough and consists usually of pebbles of quartzite, jasper, vein quartz. hematite and limonite, cemented together by a siliceous matrix. At times the conglomerate is very coarse and yield of diamond is good in such a coarse-rock. Deep working are those in which the conglomerate lying underneath the Jhirri shales. The depth of pits may be 7.5 mtr and above upto a maximum of 22mtrs.

Shallow workings locally known as "Chhilla" are those in which diamondiferous gravel or conglomerate occur at depth of 1.5 to 3.25 metres below the surface over the Baghain and Gahadra sandstone formations. The incidence is low in these lateritic gravels and is widely spread in the district.

The Vindhyans host a major share of diamonds of Panna Diamond Belt because of the occurrence of Majhgawan and Hinota diamondiferous kimberlite/lamproite and the diamondiferous conglomerate towards top of the Itwa sandstones, at the base of Jhirri shale, and towards top of the Gadahara sandstone.

Localities were diamonds:-

Majhgawan village, Hinouta village, Dongraha Ultrabasic, Harsa Ultrabasic rock, Bariarpur village, Hatupur village, Shahidan village, Ganja Shahpur village, Ramkhiria village.

Laterite

They form cappings over the sandstone and shale beds of Kaimour, Rewa and Bhander group of Vindhyan super group. It is purple to reddish brown in colour, massive and occurs as spongy, vesicular and pisiolitic form and exposed near village Manki Jardobha, Kheraband, Sukuha.

No economic significance as the deposit scanty in nature.

Calc-tuff

They are mostly localised along the gorges of Kaimasan river near Baror, Kuchha, Waterfall near Pathak chauki, Waterfall of Baghain river near Kohari. Large dirty-white highly calcareous big boulders are seen on the lower side of the waterfalls.

Deposit is very restricted and hence of no economic importance, only at times it is being burnt by local villagers for lime purpose.

Some minor minerals in the district also attracts attention which are summarised below.

Fireclay is seen near villages Sungarh, Karondia in Shahnagar Tehsil of Panna district.

Ochres and white earth are seen near villages west of Jaumabia, Samaria, Tehsil/Distt Panna.

Whiteclay near village Lahar in Tehsil/Distt Panna.

Clay is found near village Rajapur, Devendranagar for making bricks in Tehsil/Distt Panna.

Native sulphur is found near village Kauhari in tehsil/distt Panna in traces in the form of Box-Work structure.

(A) District wise detail of river or stream and other sand source.

KEN-

Length in the disrtict is approximate 40km. and flows in north and northwest direction joining river Yamuna.

Mirhasan-

Length in the district is approximate 25km. and flows south to north with 2 waterfalls each of 48 and 45 meters, turbelance is very high during rains.

Ranj-

Flows 5km. in north direction and meets Baghain river.

Baghain-

Flows 15km. in north east direction and meets Yamuna river.

Bearma-

Flows for 33km. in north south direction meeting sonar river. Its velocity is very high in rains.

Sutne-

If flows 10km, in south east direction and meets Tons.

Patne-

It flows 45km in north east and north west direction and meets Ken.

Kurser-

It flows 10km. in east west direction.

The different geological formation found in the district through which small riverlets, nalas flows during the process of denduation bring along with them huge quantity of sediments and sand and interm deposites along river edges, meanders etc. giving rise to sand deposits.

(B) District wise availability of sand or gravel or aggregate resources

Within the district 25 sand quarries are found in different rivers, which are mostly in Ajaygarh, Pawai Tehsil also 177 Quarries of different minor minerals are present in the district.

(C) District wise detail of existing mining leases of sand and aggregates.

In the district 01 mining lease of diamond is sanctioned in Panna Tehsil on an area of approximate 132 hects. till 2020, apart from this 69 auction quarries are sanctioned of different minor minerals.

(D) Drainage system with description of main rivers-

S.No.	Name of the	Area drained	% Area drained
	river	(Sq. Km)	in the District
1	Ken	500Hect. or more Search for	100%
		new quarries are in progress	
2.	Mirhasan	400Hect. or more Search for	100%
		new quarries are in progress	
3.	Berma	150Hect. or more Search for	100%
		new quarries are in progress	
4.	Patne	400Hect. or more Search for	100%
		new quarries are in progress	
5.	Sonar	50Hect. or more Search for	100%
		new quarries are in progress	

Search for new sand quarries are in progress so that mining can be takenu up.

(E) Salient Features of Important Rivers and Stream :

S.No.	Name of the River or Stream	Total Length in the Disrtict (in Km)	Place of origin	Altitude at Origin
1.	Ken	40	Plateau of Bhander Group of sand stone	560-510mts
2.	Sonar	16	Lower Trappean hills of sagar district	700-650mts
3.	Patne	45	Plateau of Bhander Group of sand stone	560-510mts
4.	Mirhasan	40	Plateau of lower Bhander Group of shales	510-450mts
5.	Ranj	5	Plateau of Upper Rewa Group of sand stone	400mts
6.	Baghain	15	Plateau of Kaimour Group of sand stone	410mts
7.	Bearma	33	Plateau of Kaimour group of sandstone of sagar district.	410-400mts.

(F) Salient Features of Important Rivers and Stream :

Portion of the river or stream recommended for Mineral Concession	Length of area recommended for mineral concession (in km)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tonne)(60% of total mineral potenial)
Sonar	Khasra no 155(Sunwani khurd)	Approximate 5.30Hect.	200×50 mts.	18000cu.mts.
Berma	Khasra no. 582 (Kol karihya) Chandrawal No1, 1 Chandrawal No 1,526, 549 Moharkakra-1	Approximate 22.5Hect.	2000×20	72000cu.mts.
Ken	Khasra no. 605 (Udla) Puraina 468 Badkhera kala-1 Singhasar-1,96 Kathi-2 Gudha-24 Bira No1,1 Bira No2,1 Bira No3,1 Udaipur-1 Barkola-1 Majhgaya-2 Mohana No1,1463 Mohana No2,55 Ramnai-1 Chandaura-1 Bhina-1 Sunhara-1 Farswaha-1	Approximate 99.9 Hect.	18000×50mts	1620000mts
Mirhasan	Pipariya Khasra No96	5.50Hect	600×10mts	10800cu.mts
Other local Small Rivers, Riverlets, Nalas, Waterfalls	Khasra No. – Nil	50Hect.	5000×50mts	450000cu.mts

Note :- No lease/permit should be granted on & along Ranj and Baghain rivers as they are diamondiferous.

Mineral Potential

Boulder, Gitti, Murum	Unlimited reserves, but in recent year		
	as per mining section record		
	aprroximate 1709657cu.mts. mineral		
	has been extracted.		
Sand	Annual deposition of sand is 2170800		
	cu.mts. as per mining section records,		
	this year 86916cu.mts sand has been		
	excavated.		
Daimond	In NMDC mine 105181.93carat has		
	been mined out where as in shallow		
	mines reserve could not be calculated		
	as the deposit is secondary but as per		
	records 1713.92 carate has been mined		
	recently of gem-off colour-industrial		
	value.		
Flag stone	Unlimited reserve but as per records so		
	far 45000 cu.mts has been mined out.		
Limestone	As per records 10.67m.tons cemen		
	grade limestone is shyamadanda block,		
	while in Gunor and Shahnagar tehsil		
	the area has been lease out for PL to		
	different agencies for setting up		
	cement Industry.		
Total Minable mineral reserve in m.t.	The mineral present in the district has		
	unlimited reserve of flagstone,		
	boulder, stone for crusher, for another		
	100 years, while sand reserve is		
	2170800 cu.mts with annual		
	deposition.		

Annual Depostition-

S.No.	Name of River	Annual Deposition (Cu.mts.)
1	Sonar	30000
2	Berma	120000
3	Ken	2700000
4	Mirhasan	180000
5	Others	750000
Total		3780000

Note -60% of the total annual deposition of sand is mineable.

Portion of the	Length of area	Average	Area	Mineable
river or	recommended for	width of area	recommended	mineral
stream recommended	mineral	recommended for mineral	for mineral concession (in	potential (in metric
for Mineral	concession (in km)	concession (in	square meter)	tonne)(60% of
Concession	,	meters)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	total mineral
				potenial)
Sonar	Khasra no	Approximate	200×50 mts.	18000cu.mts.
	155(Sunwani	5.30Hect.		
	khurd)			
Berma	Khasra no. 582	Approximate	2000×20	72000cu.mts.
	(Kol karihya)	22.5Hect.		
	Chandrawal No			
	1, 1			
	Chandrawal No			
	1,526, 549			
	Moharkakra-1			
Ken	Khasra no. 605	Approximate	18000×50mts	1620000mts
	(Udla) Puraina	99.9 Hect.		
	468			
	Badkhera kala-1			
	Singhasar-1,96			
	Kathi-2			
	Gudha-24			
	Bira No1,1			
	Bira No 2,1			
	Bira No3,1			
	Udaipur-1			
	Barkola-1			
	Majhgaya-2			
	Mohana No			

	1,1463			
	Mohana No. − 2,			
	55			
	Ramnai-1			
	Chandaura-1			
	Bhina- 1			
	Sunhara-1			
	Farswaha-1			
Mirhasan	Pipariya Khasra	5.50Hect	600×10mts	10800cu.mts
	No96			
Other local	Khasra No. – Nil	50Hect.	5000×50mts	450000cu.mts
Small Rivers,				
Riverlets,				
Nalas,				
Waterfalls				