SURVEY ON MINOR MINERALS IN NAGALAND

(Conducted under Support for Statistical Strengthening Scheme)

2022

Published by the

GOVERNMENT OF NAGALAND

DIRECTORATE OF ECONOMICS & STATISTICS

NAGALAND : KOHIMA

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PREFACE

The Directorate of Economics and Statistics, Nagaland has been estimating the annual Gross State Domestics Products of the State by adopting the methodology and the rate and ratios of National Account Division (NAD), National Statistics Office (NSO), Ministry of Statistics and Programme Implementation (MoSPI) New Delhi.

At the District level, estimation of District Domestic Product (DDP) is a huge challenge due to data gaps. Taking the advantage of the Support for Statistical Strengthening (SSS) scheme, a survey on minor minerals was initiated to capture the data on this sub sector so as to enable the estimation of Gross Value of Output that has gone unaccounted.

The survey reports contain sub State level data of both the output as well as the data on input cost incurred on the production of minor minerals.

I hope that, the survey data will be of immense help to the research scholars, statisticians and economist and also leads to a successful estimation of DDP.

Date :
Kohima :

NEIDILHOU ANGAMI
Director
Economics & Statistics
Nagaland, Kohima

ACKNOWLEDGEMENT

With the ever increasing needs for officials' statistics, the State Government has declared the Directorate of Economics & Statistics (DES) as the nodal agency for all statistical matter in the State. As the nodal agency, DES acts as the repository of all State statistics. The DES also participates in the Census survey, Types studies and Ad-hoc surveys of both the Central and State Government. Besides, DES on its own initiative conducts survey on important socio-economic parameters to cater to the needs of the Government for formulation of new policies and interventions.

Of late, National Account Division (NAD), National Statistics Office (NSO), Ministry of Statistics and Programme Implementation (MoSPI), New Delhi has been impressing upon the State on the importance of District Domestics Products (DDP) and its estimation. As the State does not have the require data base for estimation of DDP, DES has been undertaking a lots of surveys and studies in preparation of the data based towards this ends.

In this regards, one among the many surveys and studies being initiated by DES is the survey on Minor Minerals. The survey was initiated under the scheme "Support for Statistical Strengthening" (SSS) scheme under the NAD, NSO, New Delhi. It is hope that, the survey data will enable a successful estimation of the sub State level Gross Value Added (GVA) of the Minor Mineral mined.

I acknowledge with thanks the cooperation extended by quarry field workers and all the stake holders in making the survey a successful one. I also acknowledged the service render by all the field staff from district offices and also official from the Directorate involve in the survey.

Suggestion and feedback from the users of the survey reports are solicited.

Date :
Kohima :

CHARLES N KIKON
Addl. Director and Nodal Officer (SSS)
Economics & Statistics
Nagaland,Kohima.

1. EXECUTIVE SUMMARY

1.1 The survey on minor minerals was conducted in the month of January 2022 for a period of 30 days. In all, a total of 53 enterprises spread across the 11 district of the State were selected as sample from a frame of 181 enterprises.

1.2 The State total GVO for minor mineral in a year was estimated at Rs. 138,41,85,146 (Table No.1). Among the 11 districts, the largest amount of GVO comes from Kohima followed by Wokha, Kiphire and Dimapur. Corresponding to the GVO, the rate of the cost of production was estimated at 45.19 percent of the value of output.

1.3 Out of the 31 enterprises of stone quarries in Dimapur district available in the frame for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey. The district total GVO for minor mineral in a year was estimated at Rs. 6,18,71,040. Corresponding to the GVO, the rate of the cost of production was estimated at 44.14 percent of the value of output.

1.4 Kiphire district has only 5 sandstone quarries; the stipulated minimum numbers of 5 samples. The district total GVO for minor mineral in a year was estimated at Rs. 7,74,90,000. Corresponding to the GVO, the rate of the cost of production was estimated at 13.41 percent of the value of output.

1.5 Kohima district have 46 enterprises of stone quarries available in the frame for selection as sample. As the 10 percent of the enterprises turn out to be less than 5 samples, the stipulated minimum numbers of 5 samples were selected for survey. The district total GVO for minor minerals in a year was estimated at Rs. 97,45,22,880. Corresponding to the GVO, the rate of the cost of production was estimated at 16.83 percent of the value of output.

1.6 Longleng district has only 3 sandstone quarries. Therefore all the enterprises in the frame were surveyed during the survey. The district total GVO for minor minerals in a year was estimated at Rs. 24,19,200. Corresponding to the GVO, the rate of the cost of production was estimated at 82.51 percent of the value of output. This astronomical rate of cost of production could have been caused by the Non sampling errors.

1.7 Out of the 10 enterprises of stone quarries in Mokokchung district available in the frame for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey. The district total GVO for minor mineral in a year was estimated at Rs. 2,75,18,400. Corresponding to the GVO, the rate of the cost of production was estimated at 76.58 percent of the value of output. This huge rate of the cost of production could be due to Non sampling error.

1.8 Out of the 20 enterprises of stone quarries available in the frame of Mon district for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey. The district total GVO for minor minerals in a year was estimated at Rs. 4,10,40,000. Corresponding to the GVO, the rate of the cost of production was estimated at 84.65 percent of the value of output. The abnormal rate of the cost of production could have been caused by the Non sampling errors.

1.9 Peren district have a total of 15 enterprises of Sandstone quarry field in the frame. Therefore, the stipulated minimum numbers of 5 samples were selected for survey. The district total GVO for minor minerals in a year was estimated at Rs. 2,66,77,706. Corresponding to the GVO, the rate of the cost of production was estimated at 51.66 percent of the value of output.

1.10 Phek district have a total of 14 enterprises of Sandstone quarry field in the frame. Therefore, the stipulated minimum numbers of 5 samples were selected for survey. The GVO for minor minerals in a year for the district was estimated at Rs. 4,00,98,240. Corresponding to the GVO, the rate of the cost of production was estimated at 29.07 percent of the value of output.

1.11 Tuensang district has only 5 sandstone quarries; the stipulated minimum numbers of 5 samples. Therefore all the enterprises in the frame were selected as sample during the survey. The district total GVO for minor mineral in a year was estimated at Rs. 1,33,63,200. Corresponding to the GVO, the rate of the cost of production was estimated at 29.69 percent of the value of output.

1.12 Wokha district have a total of 23 enterprises of Sandstone quarry field in the frame. As the 10 percent of the enterprises turn out to be less than 5 samples, the stipulated minimum requirement of 5 enterprises were surveyed. The district total GVO for minor minerals in a year was estimated at Rs. 8,84,30,400. Corresponding to the GVO, the rate of the cost of production was estimated at 40.26 percent of the value of output.

1.13 Out of the 9 enterprises of stone quarries available in the frame of Zunheboto district for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey. The district total GVO for minor minerals in a year was estimated at Rs. 3,07,54,080. Corresponding to the GVO, the rate of the cost of production was estimated at 37.26 percent of the value of output.

2. SURVEY ON MINOR MINERALS IN NAGALAND.

2.1 Introduction

The survey on minor Minerals in Nagaland was undertaken by the Directorate of Economics & Statistics under the Support for Statistical Strengthening Scheme. The objective of the survey was to improve the Gross Value Added (GVA) of the State Domestic Product (SDP) from the Mining and Quarrying sub-sector and also to set the data base for estimation of District Domestics Products (DDP).

In the estimation of SDP, the data flow of minor mineral from the line departments is not only erratic and inconsistent but also has a huge underestimation of the minor mineral under excavation. This has resulted in the underestimation of the value of output of the minor minerals. In this regards, the survey was initiated to improve the data of the minor mineral by capturing the output that has gone unaccounted.

Lately, the National Account Division (NAD), National Statistics Office (NSO), Ministry of Statistics & Programme Implementation (MoSPI) has been impressing upon the State on the importance of District Domestics Products and its estimation. Towards this ends, the data on input cost at the sub State level (Districts) is so vital for estimation of GVA. Keeping the goal of estimation of DDP, the schedule was designed to capture not only the output but also the cost of input that goes into the production of the output. The inclusion of the input cost also help to understand the advantages and disadvantages possessed by each region at the intra State level.

2.2 METHODOLOGY

During the survey, the production of only those minor minerals that were presently under excavation was considered. In the present survey, the schedule was designed to capture data on Sandstone, Limestone and Marble only. In the process of the survey, it was found that the mining of Limestone and Marble were not been taken up for quite some time. Therefore, the survey of Limestone and Marble was drop half way into the survey and the production and cost of input of Sandstone alone was enumerated.

Adopting the data of Listing of Factories conducted by DES during 2020 as the frame for selection of samples i.e enterprises- quarry field of Stone crusher, 10 percent of the samples from each district selected on the random basis were considered for survey with the condition that sample of any district will not be less than 5. In the random selection of sample, when the intended 10 percent of the sample selected turn out to be less than 5 enterprises, enumerators were given the freedom to select sample to take the number of sample to minimum requirement of 5.

Box.1, Input cost as a percentage of total value of output

Inputs	Royalties to land Owner/Village/ Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for Lincense/Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
	1	2	3	4	5	6	7	8	9	10	11
State Input rates	2.81	14.36	4.04	2.41	4.81	3.75	7.86	1.20	0.80	3.16	45.19

In all, a total of 53 enterprises spread across the 11 district of the State were selected as sample from a frame of 181 enterprises. The survey was conduct for 30 days only covering the month January 2022.

3. SURVEY REPORT (STATE)

3.1 Value of Output of Minor Mineral (Sandstone): State

The Gross Value of Output (GVO) of the minor mineral for the 30 days period for the selected sample was estimated at Rs.3,25,24,463. Multiplying the estimated GVO of the selected sample with their respective districts calculated multiplier (Table No.14), the sum of the GVO for 30 days periods was estimated at Rs.15,37,98,350. With the quarry field reporting a working period of 9 months in a year, the State total GVO for minor mineral in a year was estimated at Rs. 138,41,85,146 (Table No.1). Among the 11 districts, the largest amount of GVO comes from Kohima followed by Wokha, Kiphire and Dimapur.

3.2 Cost of production/Input rates (Sandstone): State

Corresponding to the GVO, the rate of the cost of production was estimated at 45.19 percent of the value of output (Table No.2). Items wise, the first four largest contributor to the cost of production are; Wages and Salaries 14.36 percent, Transportation charges 7.86 percent, Fuels and Lubricants 4.81 percent, Cost of Tools and Equipments 4.04 percent etc. (Box.1 below).

4 DISTRICT WISE SURVEY REPORT

4.1 Dimapur District: Value of Output and Input rates.

Out of the 31 enterprises of stone quarries available in the frame for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey as the 10 percent of the enterprises turn out to be less than 5 samples. The GVO of the selected enterprises for 30 days was estimated at Rs. 11,08,800. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.68,74,560. With the quarries field reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 6,18,71,040 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 44.14 percent of the value of output (Table No.3). Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 16.68 percent, Royalties to the land owners 7.22 percent, Repairs and Maintenance 5.32 percent, Fees for License/Permits/Taxes 5.19 percent, etc.

4.2 Kiphire District: Value of Output and Input rates

Kiphire district has only 5 sandstone quarries; the stipulated minimum numbers of 5 samples. Therefore all the enterprises in the frame were selected as sample during the survey. The GVO of the selected enterprises for 30 days was estimated at Rs. 86,10,000. The calculated multiplier of the district being equal to 1, the GVO of the district remained the same. With the quarry field reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 7,74,90,000 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 13.41 percent of the value of output (Table No.4). Items wise, the first four largest contributors to the cost of production are; Fuels and Lubricants 5.27 percent, Transportation charges 3.53 percent, Wages and Salaries 2.22 percent, Repairs and Maintenance 1.0 percent.

4.3 Kohima District: Value of Output and Input rates

Out of the 46 enterprises of stone quarries available in the frame for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey as the 10 percent of the enterprises turn out to be less than 5 samples. The GVO of the selected enterprises for 30 days was estimated at Rs. 1,17,69,600. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.10,82,80,320. With the quarries reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 97,45,22,880 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 16.83 percent of the value of output (Table No.5). Items wise, the first four largest contributor to the cost of production are; Fuels and Lubricants 9.87 percent, Wages and Salaries 3.76 percent, Repairs and Maintenance 2.21 percent, Tools and Equipment .05 percent.

4.4 Longleng District: Value of Output and Input rates

Longleng district has only 3 sandstone quarries. Therefore all the enterprises in the frame were surveyed during the survey. The GVO of the selected enterprises for 30 days was estimated at Rs. 2,68,800. The calculated multiplier of the district being equal to 1, the GVO of the district remained the same. With the quarry field reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 24,19,200 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 82.51 percent of the value of output (Table No.6). This astronomical rate of cost of production could have been caused by the Non sampling errors. Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 32.51 percent, Transportation charges 16.48 percent, Royalties to the land owners 13.39 percent, Tools and Equipment 6.47 percent.

4.5 Mokokchung District: Value of Output and Input rates

Out of the 10 enterprises of stone quarries available in the frame for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey as the 10 percent of the enterprises turn out to be less than 5 samples. The GVO of the selected enterprises for 30 days was estimated at Rs.15,28,800. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.30,57,600. With the quarries reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 2,75,18,400 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 76.58 percent of the value of output (Table No.7). This huge rate of the cost of production could be due to Non sampling error. Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 21.65 percent, Fuels and Lubricants 16.95 percent, Transportation charges 12.78 percent, Repairs and Maintenance 5.93 percent.

4.6 Mon District: Value of Output and Input rates

Out of the 20 enterprises of stone quarries available in the frame of Mon district for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey as the 10 percent of the enterprises turn out to be less than 5 samples. The GVO of the selected enterprises for 30 days was estimated at Rs.11,40,000. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.45,60,000. With the quarries reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 4,10,40,000 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 84.65 percent of the value of output (Table No.8). This abnormal rate of the cost of production could have been caused by the Non sampling errors. Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 17.68 percent, Transportation charges 15.19 percent, Renting of Machineries 13.16 percent, Tools and Equipment 9.65 percent.

4.7 Peren District: Value of Output and Input rates

Peren district have a total of 15 enterprises of Sandstone quarry field in the frame. As the 10 percent of the enterprises turn out to be less than 5 samples, the stipulated minimum requirement of 5 enterprises were surveyed. The GVO of the selected enterprises for 30 days was estimated at Rs.9,88,063. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.29,64,190. With the quarries reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 2,66,77,706 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 51.66 percent of the value of output (Table No.9). Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 21.25 percent, Transportation charges 13.46 percent, Tools and Equipment 8.30 percent, Repairs & Maintenance 3.90 percent.

4.8 Phek District: Value of Output and Input rates

Phek district have a total of 14 enterprises of Sandstone quarry field in the frame. As the 10 percent of the enterprises turn out to be less than 5 samples, the stipulated minimum requirement of 5 enterprises were surveyed. The GVO of the selected enterprises for 30 days was estimated at Rs.15,91,200. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.44,55,360. With the quarries field reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 4,00,98,240 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 29.07 percent of the value of output (Table No.10). Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 10.18 percent, Transportation charges 7.04 percent, Tools and Equipment 5.53 percent, Misc. expenditure 1.01 percent.

4.9 Tuensang District: Value of Output and Input rates

Tuensang district has only 5 sandstone quarries; the stipulated minimum numbers of 5 samples. Therefore all the enterprises in the frame were selected as sample during the survey. The GVO of the selected enterprises for 30 days was estimated at Rs.14,84,800. The calculated multiplier of the district being equal to 1, the GVO of the district remained the same. With the quarry field reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 1,33,63,200 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 29.69 percent of the value of output (Table No.11). Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 8.32 percent, Renting of Machineries 6.06 percent, Tools and Equipment 4.73 percent, Fuel and Lubricants 2.83.

4.10 Wokha District: Value of Output and Input rates

Wokha district have a total of 23 enterprises of Sandstone quarry field in the frame. As the 10 percent of the enterprises turn out to be less than 5 samples, the stipulated minimum requirement of 5 enterprises were surveyed. The GVO of the selected enterprises for 30 days was estimated at Rs.21,36,000. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.98,25,600. With the quarries field reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 8,84,30,400 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 40.26 percent of the value of output (Table No.12). Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 11.94 percent, Transportation charges 8.43 percent, Fuel and Lubricants 7.16, Renting of Machineries 4.92 percent.

4.11 Zunheboto District: Value of Output and Input rates

Out of the 9 enterprises of stone quarries available in the frame of Zunheboto district for selection as sample, the stipulated minimum numbers of 5 samples were selected for survey as the 10 percent of the enterprises turn out to be less than 5 samples. The GVO of the selected enterprises for 30 days was estimated at Rs.18,98,400. Applying the calculated multiplier of the district to the GVO of the samples, the GVO of the district for 30 days was estimated at Rs.34,17,120. With the quarries field reporting a working period of 9 months in a year, the district total GVO for minor mineral in a year was estimated at Rs. 3,07,54,080 (Table No.1).

Corresponding to the GVO, the rate of the cost of production was estimated at 37.26 percent of the value of output (Table No.13). Items wise, the first four largest contributors to the cost of production are; Wages and Salaries 11.80 percent, Transportation charges 6.74 percent, Repairs and Maintenance 5.27 percent, Fuel and Lubricants 5.13 percent.

5. SURVEY SCHEDULE.

GOVERNMENT OF NAGALAND
DIRECTORATE OF ECONOMICS & STATISTICS
NAGALAND:KOHIMA

SURVEY SCHEDULES FOR MINOR MINERALS Sl.No. 00

BLOCK-I		
1	Name and Address of the Enterprise	
2	Name of the enterprise	
3	District	
4	sub-division	
5	Village/Town	
6	Name of the Owner	
7	Name of the Manager/Informant	
8	Contact No. of the Informant	
9	Signature of the informant with date	

BLOCK-II				
1	Details of the enterprise			
2	Type of Ownership: Individual Proprietor-ship-1, Partnership-2. Pvt. Company-3, Others-4.			
3	Registration details of the enterprise			
4	Average number of Employees engaged in a months	Male	Female	Total

Name & Designation of the Enumerator :

Contact Number of the Enumerator :

Signature of the Enumerator with Date :

BLOCK-III

Name of the Mineral	Sandstone	Limestone	Marble
Please tick appropriate items			

1	Total output in a day (in MT)	
2	Number of working days in a week	
3	Total output in a month (in MT)	
4	Number of workable months in a year	
5	Prices of the Mineral per MT	
6	Value of the Output produce per month	
Cost of production in a month		
1	Royalties to land Owner/Village/Government	
2	Wages and salaries	
3	Cost of Tools and Equipments	
4	Renting of Machineries	
5	Fuels & Lubricants	
6	Cost of repairs and Maintenance	
7	Transportation charges	
8	Fees for Lincense/Permit/Taxes	
9	Electricity charges	

Registration details: Labour Acts-1, Companies Act-2, Registered with other agencies -3, Not Registerd-4.

Table No.1: State value of Output of Minor Mineral

SN	District	One month value of Output of the Sample (in Rs.)	Multiplier	District value of Output for One Month (in Rs.)	Number of workable month in a year	Annual value of Output (in Rs.)
1	Dimapur	1108800	6.2	6874560	9	61871040
2	Kiphire	8610000	1	8610000	9	77490000
3	Kohima	11769600	9.2	108280320	9	974522880
4	Longleng	268800	1	268800	9	2419200
5	Mokokchung	1528800	2	3057600	9	27518400
6	Mon	1140000	4	4560000	9	41040000
7	Peren	988063	3	2964190	9	26677706
8	Phek	1591200	2.8	4455360	9	40098240
9	Tuensang	1484800	1	1484800	9	13363200
10	Wokha	2136000	4.6	9825600	9	88430400
11	Zunheboto	1898400	1.8	3417120	9	30754080
12	State	32524463		153798350		1384185146.4

Table No.2: Input cost as a percentage of total value of output

SN	District	Royalties to land Owner/ Village/ Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for Lincense/ Permit/ Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
		1	2	3	4	5	6	7	8	9	10	11
1	Dimapur	7.22	16.68	1.42	0.00	1.44	5.32	1.98	5.19	4.00	0.88	44.14
2	Kiphire	0.00	2.22	0.45	0.62	5.27	0.85	3.53	0.00	0.04	0.43	13.41
3	Kohima	0.00	3.76	0.36	0.03	9.87	2.21	0.00	0.00	0.23	0.37	16.83
4	Longleng	13.39	32.51	6.47	0.00	0.00	6.47	16.48	0.00	0.00	7.17	82.51
5	Mokokchung	0.23	21.65	1.70	0.00	16.95	5.93	12.78	0.47	1.55	6.32	67.58
6	Mon	6.84	17.68	9.65	13.16	3.22	8.07	15.19	4.87	0.00	5.96	84.65
7	Peren	1.17	21.25	8.30	0.00	0.00	3.90	13.46	0.61	1.40	1.57	51.66
8	Phek	0.63	10.18	5.53	0.63	1.01	0.25	7.64	0.06	0.00	3.14	29.07
9	Tuensang	1.35	8.32	4.73	6.06	2.83	1.01	0.17	1.08	0.01	4.14	29.69
10	Wokha	0.05	11.94	2.27	4.92	7.16	1.97	8.43	0.94	1.24	1.36	40.26
11	Zunheboto	0.00	11.80	3.53	1.05	5.13	5.27	6.74	0.00	0.32	3.42	37.26
12	State	2.81	14.36	4.04	2.41	4.81	3.75	7.86	1.20	0.80	3.16	45.19

Table No.3: Output and cost of Production of Minor Mineral, Dimapur.

District-Dimapur		Monthly Out-Put								Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
SN	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for Lincense/Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Sample- 1	Sandstone	26	6	624	9	5616	600	374400	25000	42000	2000		2500	10000		9000	6000	800	97300
2	Sample-2	Sandstone	14	6	336	9	3024	600	201600	5000	35000	3500		2000	10000	3000	10000	7300	1000	76800
3	Sample-3	Sandstone	11	6	264	9	2376	600	158400	25000	50000	3200		3500	4000	1000	3600	6000	1000	97300
4	Sample-4	Sandstone	13	6	312	8	2496	600	187200	20000	20000	3000		5000	20000	8000	15000	15000	3000	109000
5	Sample-5	Sandstone	13	6	312	10	3120	600	187200	5000	38000	4000		3000	15000	10000	20000	10000	4000	109000
	Total				1848		16632		1108800	80000	185000	15700	0	16000	59000	22000	57600	44300	9800	489400
Input cost as a percentage of total value of output										7.22	16.68	1.42	0.00	1.44	5.32	1.98	5.19	4.00	0.88	44.14

Table No.4: Output and cost of Production of Minor Mineral, Kiphire.

District-Kiphire		Monthly Out-Put								Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
SN	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for Lincense/Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Sample-1	Sandstone	20	6	480	9	4320	700	336000		30000	7000		35000	5000	20000			5000	102000
2	Sample-2	Sandstone	30	6	720	9	6480	700	504000		28000	5000	3000	28710	8000	22000			4000	98710
3	Sample-3	Sandstone	25	6	600	9	5400	700	420000		37000	10000	30000	40000	10000	19200			10000	156200
4	Sample-4	Sandstone	37.5	6	900	9	8100	700	630000		35000	10000	20000	270000	20000	180000	350	3200	10000	548550
5	Sample-5	Sandstone	400	6	9600	9	86400	700	6720000		61000	7000		80000	30000	63000		260	8000	249260
	Total				12300		110700		8610000	0	191000	39000	53000	453710	73000	304200	350	3460	37000	1154720
Input cost as a percentage of total value of output										0.00	2.22	0.45	0.62	5.27	0.85	3.53	0.00	0.04	0.43	13.41

Table No.5: Output and cost of Production of Minor Mineral, Kohima.

District-Kohima		Monthly Out-Put								Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
SN	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for License Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Smaple-1	Sandstone	250	6	6000	9	54000	400	2400000		80000	5000		62000	50000				6000	203000
2	Sample-2	Sandstone	250	6	6000	9	54000	480	2880000		72000	20000		90000	60000				5000	247000
3	Sample-3	Sandstone	300	6	7200	9	64800	400	2880000		100000	7000		110000	60000				7000	284000
4	Sample-4	Sandstone	140	6	3360	9	30240	560	1881600		100000	10000		400000	50000			15000	15000	590000
5	Sample-5	Sandstone	150	6	3600	9	32400	480	1728000		91000		4000	500000	40000			12000	10000	657000
	Total				26160		235440		11769600	0	443000	42000	4000	1162000	260000	0	0	27000	43000	1981000
Input cost as a percentage of total value of output										0.00	3.76	0.36	0.03	9.87	2.21	0.00	0.00	0.23	0.37	16.83

Table No.6: Output and cost of Production of Minor Mineral, Longleng.

District-Longleng		Monthly Out-Put								Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
SN	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for License Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Sample-1	Sandstone	7.5	6	180	9	1620	700	126000	6000	45400	7000			8000	17500			8800	92700
2	Sample-2	Sandstone	5	6	120	9	1080	700	84000	18000	24000	6200			6900	14800			6280	76180
3	Sample-3	Sandstone	3.5	6	84	9	756	700	58800	12000	18000	4200			2500	12000			4200	52900
	Total				384		3456		268800	36000	87400	17400	0	0	17400	44300	0	0	19280	221780
Input cost as a percentage of total value of output										13.39	32.51	6.47	0.00	0.00	6.47	16.48	0.00	0.00	7.17	82.51

Table No.7: Output and cost of Production of Minor Mineral, Mokokchung.

District- Mokokchung		Monthly Out-Put								Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
SN	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for License Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Sample-1	Sandstone	15.6	6	374.4	9	3369.6	700	262080		64000			7500	23200	40000	1350	3600	19800	159450
2	Sample-2	Sandstone	10.4	6	249.6	9	2246	700	174720	2500	51000			28600	12400	42000	1458	3400	25300	166658
3	Sample-3	Sandstone	31.2	6	748.8	9	6739	700	524160		80000				6500	33400	1458	5000	20000	146358
4	Sample-4	Sandstone	18.2	6	436.8	9	3931	700	305760		70000	26060		73000	27143	60000	1500	6697	21500	285900
5	Sample-5	Sandstone	15.6	6	374.4	9	3370	700	262080	1000	66000			150000	21400	20000	1450	5000	10000	274850
	Total				2184		19656		1528800	3500	331000	26060	0	259100	90643	195400	7216	23697	96600	1033216
Input cost as a percentage of total value of output										0.23	21.65	1.70	0.00	16.95	5.93	12.78	0.47	1.55	6.32	67.58

Table No.8: Output and cost of Production of Minor Mineral, Mon.

District-Mon		Monthly Out-Put								Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
Sl. No	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for License/ Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Sample-1	Sandstone	12	6	288	9	2592	600	172800	20000	57600	60000		36750	12000	28800	24000		8000	247150
2	Sample-2	Sandstone	6	6	144	9	1296	600	86400	18000	21600				10000	10000			15000	74600
3	Sample-3	Sandstone	12	6	288	9	2592	600	172800	10000	50400					14400			20000	94800
4	Sample-4	Sandstone	35	5	700	9	6300	600	420000	20000	30000	50000	80000		20000	72000	7500		15000	294500
5	Sample-5	Sandstone	24	5	480	9	4320	600	288000	10000	42000		70000		50000	48000	24000		10000	254000
	Total				1900		17100		1140000	78000	201600	110000	150000	36750	92000	173200	55500	0	68000	965050
Input cost as a percentage of total value of output										6.84	17.68	9.65	13.16	3.22	8.07	15.19	4.87	0.00	5.96	84.65

Table No.9: Output and cost of Production of Minor Mineral, Peren.

District-Peren		Monthly Out-Put								Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
Sl. No	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for License /Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Smaple-1	Sandstone	11.49	6	275.76	9	2481.84	545	150289		60000	15000			3000	55000	500	13800	5000	152300
2	Sample-2	Sandstone	15.66	6	375.84	9	3382.56	545	204833	2000	30000	19000			10000	35000	2000		2500	100500
3	Sample-3	Sandstone	7.07	6	169.68	9	1527.12	545	92476	6000	50000	11000			10000	12000	500		3000	92500
4	Sample-4	Sandstone	35.66	6	855.84	9	7702.56	545	466433	1600	45000	20000			10000	16000	2000		3000	97600
5	Sample-5	Sandstone	5.66	6	135.84	9	1222.56	545	74033	2000	25000	17000			5500	15000	1000		2000	67500
	Total				1812.96		16316.64		988063	11600	210000	82000	0	0	38500	133000	6000	13800	15500	510400
Input cost as a percentage of total value of output										1.17	21.25	8.30	0.00	0.00	3.90	13.46	0.61	1.40	1.57	51.66

Table No.10: Output and cost of Production of Minor Mineral, Phek.

District-Phek		Monthly Out-Put									Cost of production in a month										
		1	2	3	4	5		6	7	1	2	3	4	5	6	7	8	9	10	11
Sl. No	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)	Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for License /Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Sample-1	Sandstone	45	6	1080	9	9720	650	702000		42000	30000		6000	4000	31600	500		10000	124100
2	Sample-2	Sandstone	12	6	288	9	2592	650	187200	10000	30000	15000	10000	10000		23000	500		26000	124500
3	Sample-3	Sandstone	14	6	336	9	3024	650	218400		30000	15000				20000				65000
4	Sample-4	Sandstone	8	6	192	9	1728	650	124800		25000	10000				20000				55000
5	Sample-5	Sandstone	23	6	552	9	4968	650	358800		35000	18000				27000			14000	94000
	Total				2448		22032		1591200	10000	162000	88000	10000	16000	4000	121600	1000	0	50000	462600
Input cost as a percentage of total value of output										0.63	10.18	5.53	0.63	1.01	0.25	7.64	0.06	0.00	3.14	29.07

Table No.11: Output and cost of Production of Minor Mineral, Tuensang.

District-Tuensang		Monthly Out-Put									Cost of production in a month										
		1	2	3	4	5		6	7		1	2	3	4	5	6	7	8	9	10	11
Sl. No	Name of the Enterprises	Name of the Mineral	Total output in a day (in MT)	Number of working days in a week	Total output in a month (in MT)	Number of workable months in a year	Total output in a year (in MT)	Prices of Mineral per MT (in Rs)	Value of Output in a month (in Rs.)		Royalties to land Owner/Village/Govt.	Wages and salaries	Cost of Tools and Equipments	Renting of Machineries	Fuels & Lubricants	Cost of repairs and Maintenance	Transportation charges	Fees for License /Permit/Taxes	Electricity charges	Misc expenditure	Total cost of production in a month
1	Sample-1	Sandstone	10	6	240	9	2160	320	76800			18000	20000		35000			16000		9000	98000
2	Sample-2	Sandstone	25	5	500	9	4500	400	200000		20000	6750	5000	50000		2000				9500	93250
6	Sample-3	Sandstone	25	5	500	9	4500	400	200000			13750	15000	40000		10000				8000	86750
7	Sample-4	Sandstone	55	6	1320	9	11880	400	528000			45000	13200		4000		1000		210	20000	83410
8	Sample-5	Sandstone	50	6	1200	9	10800	400	480000			40000	17000		3000	3000	1500			15000	79500
	Total				3760		33840		1484800		20000	123500	70200	90000	42000	15000	2500	16000	210	61500	440910
							Input cost as a percentage of total value of output				1.35	8.32	4.73	6.06	2.83	1.01	0.17	1.08	0.01	4.14	29.69