



Government of Jammu & Kashmir

**REPORT ON TYPE STUDY
"CONSUMPTION OF COAL
FOR PRODUCTION OF ONE LAKH BRICKS"
2006-07**

**Directorate of Economics & Statistics
Planning & Development Department**

TYPE STUDY ON ASSESMENT OF QUANTITY OF COAL REQUIRED FOR PRODUCTION OF ONE LAKH BRICKS

INTRODUCTION :

National Income/State Income by definition is a measure of estimating volume of goods and services produced, by the Nation/ State from its all economic activities during a given period of time within its geographical boundaries counted without duplication. The goods include all types of goods produced e.g. agriculture goods, livestock and livestock products, fish, forest, mineral products, manufacturing of various consumption items, machinery and equipment etc. The services usually cover wide spectrum of services like medical services, educational services, financial services, transport services, administration services, sanitary services, etc. These estimates are build up in terms of monetary value as different units of production and kinds of services are not directly additive.

Government of India (GOI) had set up National Statistical Commission (NSC) under the Chairmanship of Dr. C. Rangarajan to review the Indian Statistical System and suggest measures to revamp the same. The NSC in its first report submitted to the government recommended various type studies to improve the existing rates and ratios used in the estimations of State Domestic Products (SDP) and Capital Formation (CF). The rates and ratios used were age old and required updating. Accordingly, Ministry of Statistics and Programme Implementation, Which was nominated as nodal Ministry, asked many State Directorate's of Economics & Statistics to launch certain studies and directed Central Statistical Organisation (CSO) to give technical details for conducting these studies. The Directorate of Economics & Statistics, Government of Jammu & Kashmir, proposed some eight studies in the sectors of agriculture, livestock, fisheries, forestry, trade and transport. A proposal to this effect was sent to GOI, which desired a comprehensive workable proposal and the guidelines were issued vide D.o. No. M-11013/3/2002/NAD-9 dated: 30th September, 2003. In view of those guidelines a comprehensive workable proposal was sent to GOI for accord of approval and technical improvements. This proposals was subsequently put before the Screening Committee, in the fourth meeting, Which took place on 6th September, 2004. The committee recommended following

studies for Jammu and Kashmir. The extract of the minutes of meeting, issued vide No: M-11013/1/2004/NAD-8 dated: 16-09-2004 are reflected hereunder:

<u>S.No.</u>	<u>Sector</u>	<u>Subject</u>
1.	Agriculture	I. Production of newly emerging crop- Mushroom. II. Production of newly emerging crop- Cut and Dried Flower. III. Seed rate of crops other than those covered in the CCS
2.	Livestock	I. Estimates of consumption of roughage and concentrates including composition consumed by different categories of cattle
3.	Fishing sector	I. Estimates of production of fish and prawns from fish pond cultivation and subsistence fish II. Inputs in fishing sector
4.	Capital formation	I. Estimates of timber and round-wood used in construction II. Estimation of quantity of coal required for production of one lakh bricks.

Subsequently, the proposal was put before Screening Committee for technical clearance. The Screening Committee accepted the proposal to conduct the proposed type studies and placed a ceiling of Rupees seven lakhs for the proposal. In view of the financial ceiling imposed the studies were confined to four only, which are identified as under:

- I. Production of newly emerging crop- Cut and Dried Flower.
- II. Seed rate of crops other than those covered in the Crop Cut Survey.
- III. Estimates of timber and round-wood used in construction
- IV. Estimation of quantity of coal required for production of one lakh bricks.

All these studies were launched in all districts of the state in selected villages / urban blocks. The present report pertains to the study "*Estimation of quantity of coal required for production of one lakh bricks*".

ASSESSMENT OF QUANTITY OF COAL REQUIRED FOR PRODUCTION OF ONE LAKH BRICKS

Background:

Of the four basic inputs of construction materials used for estimation purposes in the construction activity, bricks and tiles is one among them. Estimates of the quantity of bricks and tiles produced are prepared on the basis of the information collected from the office of the coal controller on despatches of coal used for bricks burning. On the basis of this information, the determination of total quantity of bricks and tiles produced in the small scale sector is being made. It has also been established that hardly any coal was being used in the manufacture of bricks and tiles in the registered manufacturing (ASI) and the coal despatches were mainly used for burning bricks in the un-organised sector. In small scale industries, a large number of rural households produce bricks for own use, their contribution is taken account of, on the basis of data on working force engaged in the manufacturing of clay products as per population census.

To set a strong and realistic base for calculation/estimation of rates and ratios used in the SDP and GFCF the Directorate of Economics & Statistics conducted the study "Estimation of quantity of coal required for production of one lakh bricks" on the recommendations of National Statistical Commission (NSC) with following plan.

Objective :

To set a strong and realistic base for estimation of coal required for production of bricks used in the preparation of capital formation.

Data Utilisation :

The list of brick kiln owners was obtained from the Directorate of Industries and Commerce on district-wise basis which was used as frame for

launching the case study. 5% of the brick kilns were selected randomly to determine the actual utilisation / burning of coal per one lakh of bricks.

Case Study :

5% of the brick kilns were selected in the instant study to determine the quantity of coal used and production of bricks made during the reference period 2003-04.

Sample Design :

5% brick kilns from each district were selected randomly under the study to the maximum of 10 per district. However, if in a district there happen to be less than 10 brick kilns, all were covered under the study. The sampling design, as stipulated was adopted and adjusted as per field situations.

Schedule :

A simple one page schedule as per the requirements and objective of the study was devised and information obtained from the selected brick kiln owner. The outline of which is appended with the report.

Staffing Pattern and Tabulation :

The field study was conducted by the staff of Regional Joint Director, Kashmir and District Statistics and Evaluation Officers of Jammu, Udhampur, Kathua, Rajouri and Poonch districts. The Directorate of Economics & Statistics devised the tabulation plan, scrutinised and tabulated the data. The report was drafted in the Capital Formation unit, in the Directorate of Economics & Statistics under the supervision of consultant, State Income Unit, DES.

SCHEDULE

For assessment of coal used and brick produced

Identification :

1. District _____ Tehsil _____ Block _____
2. Name _____ of _____ the _____ brick _____ kiln _____
3. Name _____ of _____ the _____ owner _____
4. Year _____ of _____ assessment _____
5. Quantity of coal used for burning bricks during the year (Tonnes) _____
6. Other items used for burning bricks with detail:-
 - a. Fire _____ wood _____ (Qtls.) _____
 - b. Dust _____ (Qtls.) _____
 - c. K. _____ oil _____ (Ltrs.) _____
 - d. Other _____ items _____ (Specify) _____
7. Bricks produced during the year _____ (Lakhs):-
 - a. A Class _____
 - b. B Class _____
 - c. C Class _____
 - d. Destroyed _____
8. Quantity of coal used for production of one lakh bricks (item 5/item 7) _____
9. Coal received during the year (Tonnes) _____
10. Last year balance if any (Tonnes) _____
11. Balance of coal at present (Tonnes) _____

Signature of Investigator

RESULTS THROWN OUT BY THE STUDY

1. CONSUMPTION OF COAL:-

The case study on consumption of coal for production of bricks was launched in four districts (Anantnag, Pulwama, Baramulla and Budgam) of Kashmir division and five districts (Jammu, Poonch, Udhampur, Kathua and Rajouri) of Jammu division. In all 56 brick kilns were selected in Jammu and Kashmir 20 in Kashmir division and 36 in Jammu division. A total quantity of 14817 tonnes of coal were received by the selected Brick kilns, out of which 14723 tonnes were consumed during the reported year 2005-06. As regards the quantity received (4394 tonnes) in the selected Kilns of Kashmir division the consumption is 100%, while in Jammu division the consumption ratio is less by 0.901% as compared to Kashmir division. During the year 2005-06 in selected 56 brick kilns 1018.8 lakh bricks were produced 782.8 lakhs in the selected 36 Kilns of Jammu division and 236 lakh bricks in 20 selected Kilns of Kashmir division. *On an average 14.45 tonnes of coal were used for production of one lakh bricks in the sample kilns in the State.* Jammu being a hotter climatic region the consumption rate is less as compared to Kashmir division which is a temperate zone. This can be visualised from the fact that only 13.19 tonnes of coal are used for production of one lakh bricks in Jammu division as compared to 18.62 tonnes used in Kashmir division for production of similar quantity of bricks. The lowest Quantity (4.50 tonnes) of coal used for production of one lakh bricks in Poonch district, Poonch being a far flung district, the bricks are mostly produced by using fire wood, which is less costlier as compared to coal.

2. CONSUMPTION OF FIRE WOOD:-

A total quantity of 76571 quintals of fire wood was used for production of 1018.80 lakh bricks. Maximum fire wood to the extent of 59901 quintals was consumed in the selected Kilns of Jammu division and 16670 quintals were consumed in the Brick Kilns of Kashmir division. *On an average 75.16 quintals of fire wood was consumed for production of one lakh bricks; 76.52 quintals per*

one lakh bricks were consumed by the brick kilns of Jammu division while as 70.64 quintals per one lakh bricks were consumed in the brick kilns of Kashmir division. Maximum quantity of 388.89 quintals of fire wood was used by one selected Brick Kiln of Poonch district for production of one lakh Bricks.

3. CONSUMPTION OF KEROSENE OIL:-

A total quantity of 4572 litres of kerosene oil was used for production of 1018.80 lakh bricks. Maximum kerosene oil to the extent of 2727 litres was consumed in the selected Kilns of Kashmir division and 1845 litres were consumed in the Brick Kilns of Jammu division. *On an average 4.49 litres of kerosene oil was consumed for production of one lakh bricks;* 11.56 litres per one lakh bricks were consumed by the brick kilns of Kashmir division while as 2.36 litres per one brick were consumed in the brick kilns of Jammu division. Maximum quantity of 1649 litres was used by ten selected Brick Kilns of Budgam district for production of 147 lakh of Bricks.

4. CONSUMPTION OF DUST:-

A total quantity of 110160 quintals of dust was used for production of 1018.80 lakh bricks. Maximum dust to the extent of 92450 quintals was consumed in the selected Kilns of Jammu division and 17710 quintals were consumed in Brick Kilns of Kashmir division. *On an average 108.13 quintals of dust was consumed for production of one lakh bricks;* 118.10 quintals per one lakh bricks were consumed by the brick kilns of Jammu division while as 75.04 quintals per one lakh bricks were consumed in the brick kilns of Kashmir division. Maximum quantity of 91200 quintals was used by ten selected Brick Kilns of Jammu district for production of 304 lakh of Bricks.

5. CLASSIFICATION OF BRICKS PRODUCED IN THE KILNS:-

Brick Kilns in the State produce different type of bricks classified as A-class, B-class, C-class and destroyed. Out of 1018.80 lakh bricks produced, only 237.15 are A-class, 504.2 are B-class, 150 are C-class and 137.63 are in the destroyed class. The ratio of A-class brick to total bricks is 23.28 % while as B-class & C-class form 49.49 % & 14.73 % respectively. It is observed that the kilns located in Kashmir division produce maximum quantity of A-class bricks while as only 7.38 % A-class bricks are produced in Jammu division. ***11.80 lakh bricks are produced on an average annually by each brick kiln in Kashmir division while 21.74 lakh bricks are produced on an average by each brick kiln in Jammu division.*** The reason behind production of lesser quantity of bricks by the kilns of Kashmir division can be attributed to seasonal and geographical variations. ***On an average 262.91 tonnes of coal is consumed by each brick kiln in the state.*** As against 286.92 tonnes consumed by each brick kiln of Jammu division, only 219.70 tonnes are consumed by each brick kiln of Kashmir division. Lowest consumption of coal has been observed to the extent of 81 tonnes, by the only selected brick kiln in Poonch district.

Table - 01

CONSUMPTION OF COAL

S. No.	DISTRICT	No. of Brick Kilns Selected for the Type Study	Quantity of Coal Received (Tonnes)	Quantity of Coal Consumed (Tonnes)	Total number of Bricks Produced (In Lakhs)	Quantity of Coal Used for Production of One Lakh Bricks (Tonnes)
1	Anantnag	7	1194	1194	64	18.66
2	Pulwama	1	144	144	8	18.00
3	Baramulla	2	340	340	17	20.00
4	Budgam	10	2716	2716	147	18.48
Total Kashmir Division		20	4394	4394	236	18.62
1	Jammu	10	2910	2955	304	9.72
2	Udhampur	2	81	81	18	4.50
3	Kathua	10	603	470	31.8	14.78
4	Rajouri	13	4210	4210	204.5	20.59
5	Poonch	1	2619	2613	224.5	11.64
Total Jammu Division		36	10423	10329	782.8	13.19
Jammu & Kashmir		56	14817	14723	1018.8	14.45

Table - 02

CONSUMPTION OF FIRE-WOOD

S. No.	DISTRICT	No. of Brick Kilns Selected for the Type Study	Quantity of Firewood Consumed (Quintals)	Total number of Bricks Produced (In Lakhs)	Quantity of Firewood Consumed for Production of One Lakh Bricks (Quintals)
1	Anantnag	7	4600	64	71.88
2	Pulwama	1	480	8	60.00
3	Baramulla	2	1190	17	70.00
4	Budgam	10	10400	147	70.75
Total Kashmir Division		20	16670	236	70.64
1	Jammu	10	17960	304	59.08
2	Udhampur	2	7000	18	388.89
3	Kathua	10	4116	31.8	129.43
4	Rajouri	13	1575	204.5	7.70
5	Poonch	1	29250	224.5	130.29
Total Jammu Division		36	59901	782.8	76.52
Total Jammu & Kashmir		56	76571	1018.8	75.16

Table - 03
CONSUMPTION OF KEROSENE OIL

S. No.	DISTRICT	No. of Brick Kilns Selected for the Type Study	Quantity of K-Oil Consumed (Litres)	Total number of Bricks Produced (In Lakhs)	Quantity of K-Oil Consumed for Production of One Lakh Bricks (Litres)
1	Anantnag	7	810	64	12.66
2	Pulwama	1	80	8	10.00
3	Baramulla	2	188	17	11.06
4	Budgam	10	1649	147	11.22
Total Jammu Division		20	2727	236	11.56
1	Jammu	10	225	304	0.74
2	Udhampur	2	40	18	2.22
3	Kathua	10	100	31.8	3.14
4	Rajouri	13	1050	204.5	5.13
5	Poonch	1	430	224.5	1.92
Total Kashmir Division		36	1845	782.8	2.36
Total Jammu & Kashmir		56	4572	1018.8	4.49

Table - 04
CONSUMPTION OF DUST

S. No.	DISTRICT	No. of Brick Kilns Selected for the Type Study	Quantity of Dust Utilized (Quintals)	Total number of Bricks Produced (In Lakhs)	Quantity of Dust Consumed for Production of One Lakh Bricks (Quintals)
1	Anantnag	7	4810	64	75.16
2	Pulwama	1	600	8	75.00
3	Baramulla	2	1275	17	75.00
4	Budgam	10	11025	147	75.00
Total Kashmir Division		20	17710	236	75.04
1	Jammu	10	91200	304	300.00
2	Udhampur	2	200	18	11.11
3	Kathua	10	0	31.8	0.00
4	Rajouri	13	1050	204.5	5.13
5	Poonch	1	0	224.5	0.00
Total Jammu Division		36	92450	782.8	118.10
Total Jammu & Kashmir		56	110160	1018.8	108.13

Table - 05
BRICKS PRODUCED AND CONSUMPTION OF COAL
PER BRICK KILN

S. No.	DISTRICT	No. of Brick Kilns Selected for the Type Study	Bricks Produced During the Year (In Lakhs)					Bricks Produced Per Brick Kiln (In Lakhs)	Consumption of Coal By Each Brick Kiln (Tonnes)
			A Class	B Class	C Class	Destroyed	Total		
1	Anantnag	7	39.50	15.50	1.50	7.50	64.00	9.14	170.57
2	Pulwama	1	5.00	-	2.00	1.00	8.00	8.00	144.00
3	Baramulla	2	9.00	6.00	1.00	1.00	17.00	8.50	170.00
4	Budgam	10	108.50	23.00	-	15.50	147.00	14.70	271.60
Total Kashmir Division		20	162.00	44.50	4.50	25.00	236.00	11.80	219.70
1	Jammu	10	34.75	157.92	57.00	54.33	304.00	30.40	295.50
2	Udhampur	2	2.00	0.00	0.00	16.00	18.00	18.00	81.00
3	Kathua	10	0.00	13.10	16.20	2.50	31.80	15.90	235.00
4	Rajouri	13	0.00	176.00	22.50	6.00	204.50	20.45	421.00
5	Poonch	1	38.40	112.50	49.80	23.80	224.50	17.27	201.00
Total Jammu Division		36	75.15	459.52	145.50	102.63	782.80	21.74	286.92
Total Jammu & Kashmir		56	237.15	504.02	150	127.63	1018.8	18.19	262.91

SCHEDULE For Assessment of Coal Used and Bricks Produced for Division Kashmir

IDENTIFICATION

District	Tehsil	Name of the Brick-Klin	Year of Establishment	Quantity of Coal and other items used for Burning Bricks				Bricks produced during the Year (In Lakhs)					Quantity of Coal Used for Production of one Lac of Bricks (Tonnes)	Coal received during the year (Tonnes)	Last year balance (If any)	Coal Balance at Present
				Coal (Tonnes)	Firewood (Qtls.)	K. Oil (Ltrs)	Dust (Qtls)	A- Class	B- Class	C- Class	Destroyed	Total				
Anantnag	Anantnag	M/S Chinar Brick Kiln	1992	145	500	80	610	4	3	1	-	8	18.13	145	-	-
Anantnag	Achabal	M/S New Hilal Brick Kiln	2004	100	300	50	375	3	1	-	1	5	20.00	100	-	-
Anantnag	Anantnag	M/S Muzaffar Brick Kiln	1992	270	1050	195	1125	10	3	-	2	15	18.00	270	-	-
Anantnag	Achabal	M/S Haba Brick Kiln	1991	160	640	96	600	4	3	-	1	8	20.00	160	-	-
Anantnag	Anantnag	M/S Jamsheed Brick Kiln	1986	90	350	60	375	3.5	1	-	0.5	5	18.00	90	-	-
Anantnag	Bijbihera	M/S Jehlum Brick Kiln	1987	144	560	104	600	6	1.5	0.5	-	8	18.00	144	-	-
Anantnag	Achabal	M/S Khursheed Brick Kiln	2000	285	1200	225	1125	9	3	-	3	15	19.00	285	-	-
Total Anantnag				1194	4600	810	4810	39.5	15.5	1.5	7.5	64	18.66	1194	-	-

Pulwama	Pampore	M/S Saffron Brick Kiln	1980	144	480	80	600	5	-	2	1	8	18.00	144	-	-
Total Pulwama				144	480	80	600	5	-	2	1	8	18.00	144	-	-
Baramulla	Sopore	M/S Gh. Mohd Dar	1991	180	630	108	675	5	3	-	1	9	20.00	180	-	-
Baramulla	Sopore	M/S Sona-ullah charoo	1991	160	560	80	600	4	3	1	-	8	20.00	160	-	-
Total Baramulla				340	1190	188	1275	9	6	1	1	17	20.00	340	-	-
Budgam	Chadora	M/S Zahoor Brick Kiln	1985	152	560	96	600	6	1	-	1	8	19.00	152	-	-
Budgam	Budgam	M/S Anwar Brick Kiln	1991-92	270	1050	150	1125	12	2	-	1	15	18.00	270	-	-
Budgam	Budgam	M/S Manzoor Bricks	1988-89	270	900	195	1125	13	1	-	1	15	18.00	270	-	-
Budgam	Chadora	M/S Gulzar Brick Kiln	1995	247	1040	169	975	8	1.5	-	1.5	13	19.00	247	-	-
Budgam	Chadora	M/S Royal Brick Kiln	1998	270	1050	150	1125	10	2	-	2	15	18.00	270	-	-
Budgam	Chadora	M/S New Alamdar Brick Kiln	1997	285	1200	165	1125	12	1	-	1	15	19.00	285	-	-
Budgam	Chadora	M/S Shabir Brick Kiln	2001	252	840	140	1050	9	3	-	3	14	18.00	252	-	-
Budgam	Chadora	M/S Al-Hilal Brick Kiln	1988	400	1760	264	1650	15.5	2	-	2	22	18.18	400	-	-
Budgam	Chadora	M/S Majid Brick Kiln	2000	380	1400	200	1500	15	2	-	2	20	19.00	380	-	-
Budgam	Chadora	M/S Bismah Brick Kiln	2003	190	600	120	750	8	1	-	1	10	19.00	190	-	-
Total Budgam				2716	10400	1649	11025	108.5	16.5		15.5	147	18.48	2716	-	-

SCHEDULE For Assessment of Coal Used and Bricks Produced for Division Jammu

IDENTIFICATION

District	Tehsil	Name of the Brick-Klin	Quantity of Coal and other items used for Burning Bricks					Bricks produced during the Year (In Lakhs)					Quantity of Coal Used for Production of one Lac of Bricks (Tonnes)	Coal received during the year (Tonnes)	Last year balance (If any)	Coal Balance at Present
			Coal (Tonnes)	Firewood (Qtls.)	K. Oil (Ltrs)	Dust (Qtls)	Others Spfy	A- Class	B- Class	C- Class	Destroyed	Total				
Jammu	Jammu	M/S Jai Ganpati Brick Kiln	410	10	20	10500	Tyres	-	25	5	5	35	11.71	400	10	-
Jammu	Jammu	M/S Shiv Shakti Brick Kiln	30	2500	10	3000	5Tyres	-	4.5	2	3.5	10	3.00	30	-	-
Jammu	Jammu	M/S Jai Jamuna Dass Brick Kiln	315	2000	50	7500	-	13.75	2.5	5	3.75	25	12.60	315	-	-
Jammu	Jammu	M/S Shiv Shankar Brick Kiln	410	1200	10	9000	Tyres / Sand	21	3	-	6	30	13.67	406	10	6
Jammu	RS Pura	M/S Swastik Brick Kiln	235	1800	5	10500	Tyres / Sand	-	21	7	7	35	6.71	234	2	1
Jammu	RS Pura	M/S Gurmukh Singh Brick Kiln	310	2500	20	10800	Tyres / Sand	-	24.1	5.4	6.48	36	8.61	300	10	-
Jammu	RS Pura	M/S Krishna Brick Industry	300	250	40	8400	-	-	16.8	5.6	5.6	28	10.71	300	-	-

Jammu	Bishnah	M/S Krishna Brick Kiln	225	3000	30	6000	Sand	-	10	3	7	20	11.25	225	-	-
Jammu	Samba	M/S New Janta Brick Kiln	400	3500	25	15000	Tyres / Sand	-	30	10	10	50	8.00	370	30	-
Jammu	Samba	M/S Nandi Brick Kiln	320	1200	15	10500	Tyres / Sand	-	21	14	-	35	9.14	330	-	10
Total Jammu			2955	17960	225	91200	-	34.75	158	57	54.3	304	9.72	2910	62	17
Poonch	Haveli	M/S Y. P. Brick Kiln	81	7000	40	200	-	2	-	-	16	18	4.50	81	-	-
Total Poonch			81	7000	40	200	-	2	-	-	16	18	4.50	81	-	-
Udhampur	Udhampur	M/S Ganesh Brick Kiln	240	2706	100	-	68Sand Strips	-	13.1	-	0.5	13.6	17.65	240	-	-
Udhampur	Udhampur	M/S Sona Brick Industries	230	1410	-	-	-	-	-	16.2	2	18.2	12.64	363	9	142
Total Udhampur			470	4116	100	-	-	-	13.1	16.2	2.5	31.8	14.78	603	9	142
Kathua	Kathua	M/S Luxmi Brick Kiln	390	200	100	100	-	-	18	1	0.5	19.5	20.00	390	-	-
Kathua	Kathua	M/S Mehta Brick Kiln	360	150	100	100	-	-	10	0.5	0.4	10.9	33.03	360	-	-
Kathua	Kathua	M/S Mahajan Enterprises	500	200	150	100	-	-	20	4	1.5	25.5	19.61	500	-	-
Kathua	Hiranagar	M/S Jai Devo Brick Kiln	500	150	100	100	-	-	20	4	1	25	20.00	500	-	-
Kathua	Hiranagar	M/S Ankush Brick Kiln	340	150	100	100	-	-	16	1	0.2	17.2	19.77	340	-	-
Kathua	Kathua	M/S R. K. Brick Kiln	320	125	100	100	-	-	15	1	0.2	16.2	19.75	320	-	-

Kathua	Hiranagar	M/S N. S. Brick Kiln	430	200	100	150	-	-	20	1	0.5	21.5	20.00	430	-	-
Kathua	Kathua	M/S Janta Brick Kiln	380	100	100	100	-	-	17	2	0.2	19.2	19.79	380	-	-
Kathua	Kathua	M/S Subash & Co. Brick Kiln	470	150	100	100	-	-	20	3	0.5	23.5	20.00	470	-	-
Kathua	Kathua	M/S Jai Shankar Brick Kiln	520	150	100	100	-	-	20	5	1	26	20.00	520	-	-
Total Kathua			4210	1575	1050	1050	-	-	176	22.5	6	205	20.59	4210	-	-
Rajouri	Rajouri	M/S Swastik Brick Kiln	65	2500	50	-	-	5	0.7	0.6	0.7	7	9.29	65	250	180
Rajouri	Rajouri	M/S Top Brick Kiln	270	600	45	-	-	20	8	1	1	30	9.00	270	-	-
Rajouri	Rajouri	M/S Shiva Brick Kiln	180	2000	20	-	-	10	5	3	2	20	9.00	180	9	9
Rajouri	Sunderbani	M/S Shamsheer Brick Kiln	210	2000	30	-	-	-	9	3.5	1.5	14	15.00	210	-	-
Rajouri	Sunderbani	M/S Vishav Brick Kiln	350	2500	30	-	-	-	15	8	3	26	13.46	350	-	-
Rajouri	Sunderbani	M/S Bhagwati Brick Kiln	260	4200	30	-	-	-	12	8	4	24	10.83	257	12	9
Rajouri	Sunderbani	M/S Om Brick Kiln	220	5000	35	-	-	-	15	5	2	22	10.00	220	-	-
Rajouri	Sunderbani	M/S Janta Brick Kiln	360	2500	30	-	-	-	14	6.5	2.5	23	15.65	360	-	-
Rajouri	Sunderbani	M/S Om Shankar Brick Kiln	230	4200	35	-	-	-	18	6	2	26	8.85	230	-	-
Rajouri	Nowshera	M/S Guru Nanak	72	1250	25	-	5Tyres	1	1.5	1.5	0.5	4.5	16.00	81	-	9

		Brick Kiln															
Rajouri	Nowshera	M/S Jawala Brick Kiln	120	900	40	-	-	-	2.5	3.9	1.6	8	15.00	120	-	-	
Rajouri	Nowshera	M/S Guru Ravi Dass Brick Kiln	180	1200	20	-	-	2.4	5.8	1.8	2	12	15.00	180	180	180	
Rajouri	Nowshera	M/S Ganesh Brick Kiln	96	400	40	-	-	-	6	1	1	8	12.00	96	7	7	
Total Rajouri			261	29250	430	-	-	38.4	113	49.	8	23.8	225	11.64	2619	458	394

SCHEDULE

For assessment of coal used and brick produced

Identification :

1. District _____ Tehsil _____ Block _____
2. Name of the brick kiln _____
3. Name of the owner _____
4. Year of assessment _____
5. Quantity of coal used for burning bricks during the year (Tonnes) _____
6. Other items used for burning bricks with detail:-
 - a. Fire wood (Qtls.) _____
 - b. Dust (Qtls.) _____
 - c. K. oil (Ltrs.) _____
 - d. Other items (Specify) _____
7. Bricks produced during the year _____ (Lakhs):-
 - a. A Class _____
 - b. B Class _____
 - c. C Class _____
 - d. Destroyed _____
8. Quantity of coal used for production of one lakh bricks (item 5/item 7)
9. Coal received during the year (Tonnes) _____
10. Last year balance if any (Tonnes) _____
11. Balance of coal at present (Tonnes) _____

Signature of Investigator