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:

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

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. **Firewood** (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 lackh 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 lackh Bricks.

3. CONSUMPTION OF KEROSENSE 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 bricks 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**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>DISTRICT</th>
<th>No. of Brick Kilns Selected for the Type Study</th>
<th>Quantity of Coal Received (Tonnes)</th>
<th>Quantity of Coal Consumed (Tonnes)</th>
<th>Total number of Bricks Produced (In Lakhs)</th>
<th>Quantity of Coal Used for Production of One Lakh Bricks (Tonnes)</th>
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<tr>
<td>1</td>
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<td>340</td>
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<td>2716</td>
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<tr>
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<td>81</td>
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<td>10</td>
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<td>Rajouri</td>
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<td>20.59</td>
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<tr>
<td>5</td>
<td>Poonch</td>
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<td>2613</td>
<td>224.5</td>
<td>11.64</td>
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<td><strong>Total Jammu Division</strong></td>
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<td><strong>10423</strong></td>
<td><strong>10329</strong></td>
<td><strong>782.8</strong></td>
<td><strong>13.19</strong></td>
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<td></td>
<td>Jammu &amp; Kashmir</td>
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<td><strong>14817</strong></td>
<td><strong>14723</strong></td>
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### Table - 02

**CONSUMPTION OF FIRE-WOOD**

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<tr>
<th>S. No.</th>
<th>DISTRICT</th>
<th>No. of Brick Kilns Selected for the Type Study</th>
<th>Quantity of Firewood Consumed (Quintals)</th>
<th>Total number of Bricks Produced (In Lakhs)</th>
<th>Quantity of Firewood Consumed for Production of One Lakh Bricks (Quintals)</th>
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<td><strong>59901</strong></td>
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<td><strong>76.52</strong></td>
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<td><strong>Total Jammu &amp; Kashmir</strong></td>
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<td><strong>76571</strong></td>
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<td><strong>75.16</strong></td>
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## Table - 03
**CONSUMPTION OF KEROSENE OIL**

<table>
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<th>S. No.</th>
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<th>No. of Brick Kilns Selected for the Type Study</th>
<th>Quantity of K-Oil Consumed (Litres)</th>
<th>Total number of Bricks Produced (In Lakhs)</th>
<th>Quantity of K-Oil Consumed for Production of One Lakh Bricks (Litres)</th>
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<td><strong>4572</strong></td>
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</table>
# Table - 04

**CONSUMPTION OF DUST**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>DISTRICT</th>
<th>No. of Brick Kilns Selected for the Type Study</th>
<th>Quantity of Dust Utilized (Quintals)</th>
<th>Total number of Bricks Produced (In Lakhs)</th>
<th>Quantity of Dust Consumed for Production of One Lakh Bricks (Quintals)</th>
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<td><strong>108.13</strong></td>
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# BRICKS PRODUCED AND CONSUMPTION OF COAL PER BRICK KILN

<table>
<thead>
<tr>
<th>S. No.</th>
<th>DISTRICT</th>
<th>No. of Brick Kilns Selected for the Type Study</th>
<th>Bricks Produced During the Year (In Lakhs)</th>
<th>Bricks Produced Per Brick Kiln (In Lakhs)</th>
<th>Consumpt ion of Coal By Each Brick Kiln (Tonnes)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>A Class</td>
<td>B Class</td>
<td>C Class</td>
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## SCHEDULE For Assessment of Coal Used and Bricks Produced for Division Kashmir

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

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<td>-</td>
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<td>Sunderbani</td>
<td>M/S Janta Brick Kiln</td>
<td>360</td>
<td>2500</td>
<td>30</td>
<td>-</td>
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<td>Sunderbani</td>
<td>M/S Om Shankar Brick Kiln</td>
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<td>4200</td>
<td>35</td>
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<tr>
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<td>Nowshera</td>
<td>M/S Guru Nanak</td>
<td>72</td>
<td>1250</td>
<td>25</td>
<td>-</td>
<td>-</td>
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<td>Nowshera</td>
<td>Brick Kiln</td>
<td>120</td>
<td>900</td>
<td>40 -</td>
<td>- - -</td>
<td>2.5</td>
<td>3.9</td>
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<tr>
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<td>Nowshera</td>
<td>M/S Jawala Brick Kiln</td>
<td>180</td>
<td>1200</td>
<td>20 -</td>
<td>- - -</td>
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<td>Nowshera</td>
<td>M/S Guru Ravi Dass Brick Kiln</td>
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<td>400</td>
<td>40 -</td>
<td>- - -</td>
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<tr>
<td>Total Rajouri</td>
<td></td>
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<td>261</td>
<td>29250</td>
<td>430 -</td>
<td>- - -</td>
<td>38.4</td>
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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