

**Geological Survey of India, Coal Wing**  
**INVENTORY OF GEOLOGICAL RESOURCE OF INDIAN LIGNITE**  
(As on 01.04.2008)

State/District	Area/Block	Depth(m)	(Resource in million tonne)				
			Proved	Indicated	Inferred	Total	Grand Total
<b><u>Neyveli lignite field</u></b>							
Pondicherry	*Bahur	0-150	0.00	405.61	0.00	405.61	<b>405.61</b>
	*West of Bahur	0-150	0.00	0.00	11.00	11.00	<b>11.00</b>
<b>Total for Pondicherry</b>			<b>0.00</b>	<b>405.61</b>	<b>11.00</b>		<b>416.61</b>
<b>Tamil Nadu</b>							
Cuddalore	NLC leasehold areas (Mine-I & Expansion, Mine IA, Mine-II & Expansion, Mine-III, Block-B, Devangudi, and areas locked up between Mine-I, Mine-II, Mine-III and river)	0-150	2831.00	134.00	138.00	3103.00	<b>3127.00</b>
		150-300	0.00	0.00	24.00	24.00	
	South of Vellar (Srimushnam)	0-150	0.00	501.00	0.00	501.00	<b>510.00</b>
		150-300	0.00	9.00	0.00	9.00	
	Veeranam (Lalpettai)	150-300	0.00	1341.17	0.00	1341.17	<b>1342.45</b>
		>300	0.00	1.28	0.00	1.28	
	Eastern part of NLC leasehold area	>150	0.00	0.00	55.00	55.00	<b>55.00</b>
	Kullanchavadi	>150	0.00	0.00	175.00	175.00	<b>175.00</b>
	Kudikadu	0-150	0.00	0.00	133.38	133.38	<b>133.38</b>
	Bhuvanagiri-Kullanchavadi	150-300	0.00	0.00	385.40	385.40	<b>385.40</b>
	Eastern part of Neyveli	150-300	0.00	218.65	37.68	256.33	<b>562.32</b>
		>300	0.00	156.86	149.13	305.99	
	*Bahur	0-150	0.00	168.78	0.00	168.78	<b>168.78</b>
	*West of Bahur	0-150	0.00	0.00	66.14	66.14	<b>66.14</b>
Ariyalur	Meensuruti	0-150	0.00	0.00	458.00	458.00	<b>458.00</b>
	Jayamkondacholapuram	0-150	568.39	599.61	0.00	1168.00	<b>1168.00</b>
	Michaelpatti	0-150	0.00	0.00	23.07	23.07	<b>23.07</b>
<b>Neyveli lignite field</b>			<b>3399.39</b>	<b>3535.96</b>	<b>1655.80</b>		<b>8591.15</b>
*( Both Bahur and West of Bahur blocks cover parts of Tamilnadu and Pondicherry state).							
<b><u>Mannargudi lignite field</u></b>							
Thanjavur and Thiruvarur	Mannargudi central	150-300	0.00	3159.00	0.00	3159.00	<b>5002.55</b>
		>300	0.00	1843.55	0.00	1843.55	
	Mannargudi NE	150-300	0.00	275.26	0.00	275.26	<b>6142.54</b>
		>300	0.00	5867.28	0.00	5867.28	
	Mannargudi North East Extn.	>300	0.00	0.00	3057.95	3057.95	<b>3057.95</b>
	Mannargudi SE	150-300	0.00	553.00	0.00	553.00	<b>6058.37</b>
		>300	0.00	5505.37	0.00	5505.37	
	Melnattam-Agraharam	150-300	0.00	44.60	65.51	110.11	<b>110.11</b>
Thanjavur	Mannargudi NW	150-300	0.00	575.57	0.00	575.57	<b>996.67</b>
		>300	0.00	421.10	0.00	421.10	
	Mannargudi SW	150-300	0.00	481.80	0.00	481.80	<b>481.80</b>
	Maharajapuram	150-300	0.00	23.95	0.00	23.95	<b>23.95</b>
	Orattanadu-Pattukottai	150-300	0.00	10.80	44.31	55.11	<b>55.11</b>
	Vadaseri(Orattanadu-Pattukottai)	0-150	0.00	9.37	0.00	9.37	<b>755.20</b>
		150-300	0.00	745.83	0.00	745.83	
	Madukkur-Anaikkadu	150-300	0.00	17.41	28.35	45.76	<b>45.76</b>
	Veppanagulam-Kasangadu	150-300	0.00	4.88	0.00	4.88	<b>4.88</b>
Thanjavur and Nagappattinam	Alangudi	150-300	0.00	24.98	48.01	72.99	<b>158.02</b>
		>300	0.00	29.31	55.72	85.03	
	Pandanallur	150-300	0.00	6.48	12.94	19.42	<b>73.67</b>
>300		0.00	18.14	36.11	54.25		
	Tirumangaichcheri	150-300	0.00	21.05	43.9	64.95	<b>133.19</b>
		>300	0.00	26.03	42.21	68.24	
<b>Mannargudi lignite field</b>			<b>0.00</b>	<b>19664.76</b>	<b>3435.01</b>		<b>23099.77</b>
<b><u>Ramanathapuram lignite field</u></b>							
Ramanathapuram	Misal	>300	0.00	23.92	28.79	52.71	<b>52.71</b>
<b>Ramanathapuram lignite field</b>			<b>0.00</b>	<b>23.92</b>	<b>28.79</b>	52.71	<b>52.71</b>

State/District	Area/Block	Depth(m)	(Resource in million tonne)				
			Proved	Indicated	Inferred	Total	Grand Total
<i>Total for Tamil Nadu</i>			<b>3399.39</b>	<b>22819.03</b>	<b>5108.60</b>		<b>31327.02</b>
<b>Rajasthan</b>							
Bikaner	Palana	0-150	23.57	0.00	0.00	23.57	<b>23.57</b>
	Barsingsar	0-150	77.83	0.00	0.00	77.83	<b>77.83</b>
	Gurha East	0-150	33.81	0.00	0.00	33.81	<b>38.11</b>
		150-300	4.30	0.00	0.00	4.30	
	Gurha West	0-150	40.65	0.00	0.00	40.65	<b>41.65</b>
		150-300	1.00	0.00	0.00	1.00	
	Bholasar	0-150	0.00	0.00	3.90	3.90	<b>3.90</b>
	Bithnok Main	0-150	78.78	0.46	0.00	79.24	<b>98.24</b>
		150-300	0.00	19.00	0.00	19.00	
	Bithnok East Ext.	0-300	0.00	39.44	0.00	39.44	<b>39.44</b>
	Gadiyala	0-300	0.00	0.00	36.98	36.98	<b>36.98</b>
	Girirajsar	0-300	0.00	26.48	8.99	35.47	<b>35.47</b>
	Raneri	0-150	33.92	0.00	0.00	33.92	<b>33.92</b>
	Mandal Chaman	0-150	0.00	17.70	0.00	17.70	<b>17.70</b>
	Hadla	0-150	59.63	0.00	0.00	59.63	<b>59.63</b>
	Badhnu	0-150	0.00	0.00	1.87	1.87	<b>1.87</b>
	Hira Ki Dhani	0-150	0.00	0.00	0.66	0.66	<b>0.66</b>
	Chak-Vijaisinghpura	0-150	2.80	0.00	0.00	2.80	<b>2.80</b>
	Kuchore (Napasar)	0-150	0.00	0.00	1.00	1.00	<b>1.00</b>
	Riri	0-150	0.00	195.45	1.03	196.48	<b>224.16</b>
		>150	0.00	26.41	1.27	27.68	
	Lalamdesar Bada	0-150	0.00	2.00	0.00	2.00	<b>2.00</b>
	East of Riri	0-150	0.00	0.00	1.76	1.76	<b>1.76</b>
	Bania	0-150	0.00	0.49	0.00	0.49	<b>0.49</b>
	Kuchaur-Athuni	0-150	0.00	0.18	0.00	0.18	<b>0.18</b>
	Sarupdesar-Palana west	0-150	0.00	0.67	0.00	0.67	<b>0.67</b>
	Palana East	0-150	0.00	1.46	0.00	1.46	<b>1.46</b>
	Gigasar-Kesardesar	0-150	0.00	0.65	0.00	0.65	<b>0.65</b>
	Girirajsar Extn.	150-300	0.00	0.00	24.81	24.81	<b>24.81</b>
	Bapeau	0-150	0.00	0.00	35.58	35.58	<b>35.58</b>
	Bigga-Abhaysingpura	0-150	0.00	0.00	25.26	25.26	<b>44.64</b>
		150-300	0.00	0.00	19.38	19.38	
<b>Barmer</b>							
	Kapurdi	0-150	150.40	0.00	0.00	150.40	<b>150.40</b>
	Jalipa	0-150	0.00	224.28	0.00	224.28	<b>316.28</b>
		150-300	0.00	92.00	0.00	92.00	
	Bothia (Jalipa N Ext.)	0-300	0.00	151.67	0.00	151.67	<b>151.67</b>
	Giral	0-150	20.00	81.90	0.00	101.90	<b>101.90</b>
	Jogeshwartala	0-150	0.00	31.52	0.00	31.52	<b>34.52</b>
		150-300	0.00	3.00	0.00	3.00	
	Sonari	0-300	0.00	43.59	0.00	43.59	<b>43.59</b>
	Sachha-Sauda	0-300	0.00	28.70	0.00	28.70	<b>28.70</b>
	Bharka	0-150	0.00	8.45	0.00	8.45	<b>9.45</b>
		150-300	0.00	1.00	0.00	1.00	
	Bothia-Bharka-Dunga	0-300	0.00	9.35	0.00	9.35	<b>9.35</b>
	Sindhari East	>150	0.00	262.65	0.00	262.65	<b>262.65</b>
	Sindhari West	>150	0.00	894.93	339.25	1234.18	<b>1234.18</b>
	Kurla	0-150	0.00	0.00	68.67	68.67	<b>68.67</b>
	Chokla North	0-300	0.00	0.00	234.77	234.77	<b>234.77</b>
	Mahabar-Shivkar	0-150	0.00	9.22	24.30	33.52	<b>44.06</b>
		150-300	0.00	2.93	7.61	10.54	
	Mithra	0-150	0.00	0.09	0.39	0.48	<b>2.46</b>
		150-300	0.00	0.45	1.53	1.98	
	Hodu	0-300	0.00	78.17	80.55	158.72	<b>165.57</b>
		>300	0.00	0.00	6.85	6.85	
<b>Barmer</b>	Nimbalkot	0-100	0.00	0.00	8.97	8.97	<b>109.60</b>
		100-300	0.00	0.00	85.49	85.49	

State/District	Area/Block	Depth(m)	(Resource in million tonne)				Grand Total
			Proved	Indicated	Inferred	Total	
		>300	0.00	0.00	15.14	15.14	
	Nimbalkot North	0-100	0.00	0.00	1.93	1.93	
		100-300	0.00	0.00	22.34	22.34	<b>27.72</b>
		>300	0.00	0.00	3.45	3.45	
	Nagurda	0-150	0.00	103.68	0.00	103.68	
		150-300	0.00	127.87	0.00	127.87	<b>232.25</b>
		>300	0.00	0.70	0.00	0.70	
	Nagurda(East)	0-150	0.00	18.46	0.00	18.46	
		150-300	0.00	3.23	0.00	3.23	<b>21.69</b>
	Munabao	150-300	0.00	0.00	9.85	9.85	<b>9.85</b>
	Kawas Gravity Block	150-300	0.00	0.00	53.03	53.03	<b>53.03</b>
Jaisalmer & Barmer	Khuri	0-300	0.00	0.00	13.80	13.80	<b>13.80</b>
Nagaur	Kasnau-Igiar	0-150	64.90	0.00	0.00	64.90	<b>64.90</b>
	Matasukh	0-150	10.10	0.00	0.00	10.10	<b>10.10</b>
	Mokala	0-150	0.00	29.00	0.00	29.00	<b>29.00</b>
	Nimbri-Chandawatan	0-150	9.00	0.00	0.00	9.00	<b>9.00</b>
	Kapriion-Ka-Dhani	0-150	17.00	0.00	0.00	17.00	<b>17.00</b>
	Merta Road & Meeranagar	0-150	0.0	23.90	59.35	83.25	<b>83.25</b>
	Indawar	0-150	12.00	0.00	0.00	12.00	<b>12.00</b>
	Kuchera	0-150	0.00	0.00	1.00	1.00	<b>1.00</b>
	Lunsara	0-300	0.00	7.17	0.00	7.17	<b>7.17</b>
Jalore	Sewara	150-300	0.00	0.00	33.43	33.43	
		>300	0.00	0.00	42.65	42.65	<b>76.08</b>
<b>Total for Rajasthan</b>			<b>639.69</b>	<b>2568.30</b>	<b>1276.84</b>		<b>4484.83</b>
<b>Gujarat</b>							
Kachchh	Panandhro	0-150	98.00	0.00	0.00	98.00	<b>98.00</b>
	Panandhro Ext.	0-150	0.00	0.00	14.45	14.45	<b>14.45</b>
	Barkhan Dam	0-150	0.00	0.00	7.19	7.19	<b>7.19</b>
	Kaiyari Block-A	0-150	40.36	20.30	0.00	60.66	<b>60.66</b>
	Kaiyari Block-B	0-150	0.00	10.52	0.00	10.52	<b>10.52</b>
	Mata-No-Madh	0-150	34.00	0.00	0.00	34.00	<b>34.00</b>
	Umarsar	0-150	19.47	0.00	0.00	19.47	<b>19.47</b>
	Lakhpath-Dedhdi	0-150	14.00	0.00	0.00	14.00	<b>14.00</b>
	AkriMota	0-150	91.78	0.00	0.00	91.78	<b>91.78</b>
	Jhularai-Wagapadar	0-150	3.00	0.00	0.00	3.00	<b>3.00</b>
	Hamla-Ratadia	0-150	0.00	0.00	3.00	3.00	<b>3.00</b>
	Pranpur	0-300	0.00	1.28	8.45	9.73	<b>9.73</b>
Bhavnagar	Kharsalia, Rampur, Hoidad, Bhuteshwar, Surka etc.	0-300	0.00	0.00	299.17	299.17	<b>299.17</b>
Bharuch	Bhuri	0-150	10.59	31.56	0.00	42.15	<b>42.15</b>
	Valia, Bhaga, Luna, Pansoli, Nani Pardi etc.	0-300	251.68	87.03	636.85	975.56	<b>975.56</b>
	Bhimpur	0-150	3.60	0.00	0.00	3.60	
		150-300	0.51	0.00	0.00	0.51	<b>4.11</b>
	Rajpardi (GMDC leasehold) by MECL	0-150	0.00	0.00	20.72	20.72	<b>20.72</b>
	Rajpardi (CGM) by MECL	0-300	0.00	0.00	292.04	292.04	<b>292.04</b>
Surat	Tadkeswar	0-300	0.00	0.00	123.10	123.10	<b>123.10</b>
	Dungra	0-300	0.00	0.00	92.52	92.52	<b>92.52</b>
	East of Kamrej-Vesma	150-300	0.00	0.00	7.92	7.92	<b>7.92</b>
	Tadkeswar Block--Mongrol, Mandvi, Vastan, Nani Naroli, Ghala etc.	0-300	218.28	108.71	112.67	439.66	<b>439.66</b>
<b>Total for Gujarat</b>			<b>785.27</b>	<b>259.40</b>	<b>1618.08</b>		<b>2662.75</b>

**J & K**

State/District	Area/Block	Depth(m)	(Resource in million tonne)				Grand Total
			Proved	Indicated	Inferred	Total	
Kupwara	Nichahom	0-150	0.00	20.25	0.00	20.25	20.25
	Nichahom -Budhasung	0-150	0.00	0.00	7.30	7.30	7.30
<b>Total for J &amp; K</b>			<b>0.00</b>	<b>20.25</b>	<b>7.30</b>		<b>27.55</b>
<b>Kerala</b>							
Kannanur	Madayi	0-150	0.00	0.00	5.60	5.60	5.60
	Nileswaram	0-150	0.00	0.00	2.50	2.50	2.50
	Kadamkottumala	0-150	0.00	0.00	1.00	1.00	1.00
	Kayyur	0-150	0.00	0.00	0.55	0.55	0.55
<b>Total for Kerala</b>			<b>0.00</b>	<b>0.00</b>	<b>9.65</b>		<b>9.65</b>
<b>West Bengal</b>							
	Rakshitpur	0-150	0.00	0.29	0.86	1.15	1.15
<b>Total for West Bengal</b>			<b>0.00</b>	<b>0.29</b>	<b>0.86</b>	<b>1.15</b>	<b>1.15</b>
<b>Grand Total for all States</b>			<b>4824.35</b>	<b>26072.88</b>	<b>8032.33</b>		<b>38929.56</b>

(This inventory dealt with net geological resources assessed, so far, and did not take into account the mined out reserve. The resource of lignite is based on compilation of data available from Geological Survey of India, Neyveli Lignite Corporation, Mineral Exploration Corporation Limited, DMG, Rajasthan and CGM, Gujarat.)

Note: In addition to the above resources the following prognosticated resources are also recorded.

1. Mannargudi lignite field extending eastward beyond the explored area may also likely to contain considerable resources.
2. About 60 b.t of lignite may likely to be contained within 800-1400m depth in Kalol basin (Mehsana area), Gujarat (Source: ONGC).
3. Exploration by Shell Oil Company in the Barmer and Sanchor basins of Rajasthan indicated the presence of substantial lignite resource at deeper level.
4. Substantial resource of lignite has also been prognosticated in the Cambay basin of Gujarat at deeper level (Source: ONGC).
5. A few more minor lignite deposits were also reported from isolated areas of Kerala, West Bengal and J & K states.

<u>Lignite mined out till 31.3.2008 (Source: Neyveli Lignite Corporation)</u>				
State	District	Area	Mine	Amount (in million tonne)
Tamilnadu	Cuddalore	Neyveli	Mine I & Expansion.	264.684
			Mine I A	15.536
			Mine I & Expansion	168.057
			<b>Total</b>	<b>448.277</b>
Gujarat	Kachchh		Panandhro	81.822
			Matanomadh	1.08
	Bharuch		Rajpardi	8.963
	Surat		Tadkeshwar	0.347
			Vastan	12.006
<b>Total</b>	<b>104.218</b>	(Data upto 31.3.2007)		
Rajasthan	Barmer Nagaur		Giral	3.686
			Kasnau/Matasukh	0.372
			<b>Total</b>	<b>4.058</b>
<b>Grand Total</b>			<b>556.553</b>	