



Ref No: 01:CC:CD:737-D

Date: 27.09.2024

The Secretary  
Central Electricity Regulatory Commission,  
3<sup>rd</sup> & 4<sup>th</sup> Floor, Chanderlok Building,  
36, Janpath, New Delhi-110001

**Subject: Submission of comments/ suggestions on draft CERC (Terms and Conditions of Tariff) (First Amendment) Regulations, 2024**

Sir,

This has reference to the Public Notice No L-1 /268/2022/CERC dated 02.08.2024 & 07.09.2024 seeking comments and suggestions from stakeholders on the draft CERC (Terms and Conditions of Tariff) (First Amendment) Regulations, 2024.

NTPC vide its letter dated 06.09.2024 had submitted its comments/ suggestions on the draft CERC (Terms and Conditions of Tariff) (First Amendment) Regulations, 2024. In the comments, NTPC has submitted that the Startup Oil consumption in Sub-critical & Supercritical units during hot, warm & cold start-up condition are higher as compared to the start-up oil consumption norm proposed in the draft CERC (Terms and Conditions of Tariff) (First Amendment) Regulations, 2024.

In this regard, NTPC would like to submit the Station wise details of Startup Oil consumption during Hot, Warm & Cold start up condition for your kind consideration. The details of Startup Oil consumption may be considered as a part of consolidated comments/ suggestions made by NTPC vide its letter dated 06.09.2024 on the draft CERC (Terms and Conditions of Tariff) (First Amendment) Regulations, 2024.

It is also requested that NTPC may be allowed to submit any additional submissions, if required.

Thanking you,

Your faithfully,

(Ajay Dua)

ED (Commercial)

**DETAILS OF OIL CONSUMPTION IN 200/210/250 MW UNITS DURING HOT, WARM & COLD START UPS**

<b>NTPC Stations</b>	<b>Particulars</b>	<b>Units</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>AVERAGE</b>
Unchahar-I	Number of Cold starts- ups	Nos.	1	4	7	10	11	
	Oil consumption for Cold starts- ups	kl	106	394	451	922	854	
	Number of Warm starts- ups	Nos	8	4	1	12	9	
	Oil consumption for Warm starts- ups	kl	270	224	56	646	447	
	Number of Hot starts- ups	Nos.	6	8	7	3	1	
	Oil consumption for Hot starts- ups	kl	233	334	202	89	41	
Unchahar-II	Number of Cold starts- ups	Nos.	2	1	5	3	4	
	Oil consumption for Cold starts- ups	kl	142	77	261	262	317	
	Number of Warm starts- ups	Nos	3	6	5	2	7	
	Oil consumption for Warm starts- ups	kl	271	198	266	200	544	
	Number of Hot starts- ups	Nos.	11	14	3	4	2	
	Oil consumption for Hot starts- ups	kl	844	573	88	428	143	
Unchahar-III	Number of Cold starts- ups	Nos.	3	1		2	1	
	Oil consumption for Cold starts- ups	kl	298	57		210	55	
	Number of Warm starts- ups	Nos	2	3		5	1	
	Oil consumption for Warm starts- ups	kl	32	161		376	9	
	Number of Hot starts- ups	Nos.	2	3	2		1	
	Oil consumption for Hot starts- ups	kl	48	123	106		25	
Dadri-I	Number of Cold starts- ups	Nos.	15	20	20	33	8	
	Oil consumption for Cold starts- ups	kl	1,065	1,380	1,480	2,393	520	
	Number of Warm starts- ups	Nos.	8	2	4	10	26	
	Oil consumption for Warm starts- ups	kl	448	114	212	540	1,248	
	Number of Hot starts- ups	Nos.	8	9	3	5	8	
	Oil consumption for Hot starts- ups	kl	252	342	119	185	256	
VSTPS-I	Number of Cold starts- ups	Nos.	9	6	9	12	7	
	Oil consumption for Cold starts- ups	kl	719	1,223	1,234	1,538	1,775	
	Number of Warm starts- ups	Nos.	14	16	14	13	12	
	Oil consumption for Warm starts- ups	kl	687	1,025	1,194	764	882	
	Number of Hot starts- ups	Nos.	10	11	9	4	8	
	Oil consumption for Hot starts- ups	kl	548	324	199	161	68	
Kahalgaon-I	Number of Cold starts- ups	Nos.	3	4	8	4	9	
	Oil consumption for Cold starts- ups	kl	486	516	751	620	796	
	Number of Warm starts- ups	Nos	11	11	6	11	14	
	Oil consumption for Warm starts- ups	kl	663	568	513	682	806	
	Number of Hot starts- ups	Nos.	11	8	9	7	8	
	Oil consumption for Hot starts- ups	kl	470	272	398	345	258	
Barauni-II	Number of Cold starts- ups	Nos.		1	2	5	3	
	Oil consumption for Cold starts- ups	kl		158	432	556	713	
	Number of Warm starts- ups	Nos		1	10	9	18	
	Oil consumption for Warm starts- ups	kl		106	982	367	976	
	Number of Hot starts- ups	Nos.			25	12	28	
	Oil consumption for Hot starts- ups	kl			725	775	1,253	
Bongaigaon	Number of Cold starts- ups	Nos.	11	8	16	10	2	
	Oil consumption for Cold starts- ups	kl	758	541	1,159	485	129	
	Number of Warm starts- ups	Nos	12	28	10	8	13	
	Oil consumption for Warm starts- ups	kl	546	1,277	442	322	538	
	Number of Hot starts- ups	Nos.	18	11	10	11	14	
	Oil consumption for Hot starts- ups	kl	456	249	248	234	281	
NTPC Coal Stations (200/210/250 MW Units)	<b>Number of Cold starts- ups</b>	<b>Nos.</b>	<b>44</b>	<b>45</b>	<b>67</b>	<b>79</b>	<b>45</b>	<b>56</b>
	<b>Oil consumption for Cold starts- ups</b>	<b>KL</b>	<b>3,574</b>	<b>4,346</b>	<b>5,768</b>	<b>6,986</b>	<b>5,159</b>	<b>5,166</b>
	<b>Oil consumption per cold startup</b>	<b>KL/ startup</b>	<b>81</b>	<b>97</b>	<b>86</b>	<b>88</b>	<b>115</b>	<b>93</b>
	<b>Number of Warm starts- ups</b>	<b>Nos.</b>	<b>58</b>	<b>71</b>	<b>50</b>	<b>70</b>	<b>100</b>	<b>70</b>
	<b>Oil consumption for Warm starts- ups</b>	<b>KL</b>	<b>2,917</b>	<b>3,672</b>	<b>3,665</b>	<b>3,897</b>	<b>5,450</b>	<b>3,920</b>
	<b>Oil consumption per Warm startup</b>	<b>KL/ startup</b>	<b>50</b>	<b>52</b>	<b>73</b>	<b>56</b>	<b>54</b>	<b>57</b>
	<b>Number of Hot starts- ups</b>	<b>Nos.</b>	<b>66</b>	<b>64</b>	<b>68</b>	<b>46</b>	<b>70</b>	<b>63</b>
	<b>Oil consumption for Hot starts- ups</b>	<b>KL</b>	<b>2,850</b>	<b>2,217</b>	<b>2,084</b>	<b>2,217</b>	<b>2,325</b>	<b>2,339</b>
<b>Oil consumption per Hot startup</b>	<b>KL/ startup</b>	<b>43</b>	<b>35</b>	<b>31</b>	<b>48</b>	<b>33</b>	<b>38</b>	

**DETAILS OF OIL CONSUMPTION IN 500 MW UNITS DURING HOT, WARM & COLD START UPS**

<b>NTPC Stations</b>	<b>Particulars</b>	<b>Units</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>AVERAGE</b>
Rihand-I	Number of Cold starts- ups	Nos.	5	4	5	2	2	
	Oil consumption for Cold starts- ups	kl	315	145	478	1,449	1,157	
	Number of Warm starts- ups	Nos.	5	5	5	11	9	
	Oil consumption for Warm starts- ups	kl	743	1,222	1,373	147	975	
	Number of Hot starts- ups	Nos.	6	6	6	2	3	
	Oil consumption for Hot starts- ups	kl	300	266	368	205	255	
Rihand-II	Number of Cold starts- ups	Nos.	3	4	3	2		
	Oil consumption for Cold starts- ups	kl	642	858	322	1,236		
	Number of Warm starts- ups	Nos.	10	6	4	11	5	
	Oil consumption for Warm starts- ups	kl	497	393	458	1,258	513	
	Number of Hot starts- ups	Nos.	7	6	1			
	Oil consumption for Hot starts- ups	kl	404	148	154			
Rihand-III	Number of Cold starts- ups	Nos.	3	1	2	2	5	
	Oil consumption for Cold starts- ups	kl	371	66	1,139	444	383	
	Number of Warm starts- ups	Nos.	3	4	3	4	2	
	Oil consumption for Warm starts- ups	kl	231	472	335	441	640	
	Number of Hot starts- ups	Nos.	3	4	2			
	Oil consumption for Hot starts- ups	kl	211	126	158			
Unchahar-IV	Number of Cold starts- ups	Nos.	5	3	4	5	2	
	Oil consumption for Cold starts- ups	kl	653	335	310	505	170	
	Number of Warm starts- ups	Nos	5	9	2	4	5	
	Oil consumption for Warm starts- ups	kl	403	782	197	445	373	
	Number of Hot starts- ups	Nos.	5	7	1	2	2	
	Oil consumption for Hot starts- ups	kl	548	480	46	200	85	
Dadri-II	Number of Cold starts- ups	Nos.	4	5	11	10	6	
	Oil consumption for Cold starts- ups	kl	392	505	1,155	1,030	603	
	Number of Warm starts- ups	Nos.	7	3	2	1	14	
	Oil consumption for Warm starts- ups	kl	511	228	140	72	1,001	
	Number of Hot starts- ups	Nos.	7	8	3	3	5	
	Oil consumption for Hot starts- ups	kl	329	392	135	138	255	
VSTPS-II	Number of Cold starts- ups	Nos.	3	6	4	1	3	
	Oil consumption for Cold starts- ups	kl	644	1,628	1,204	1,643	824	
	Number of Warm starts- ups	Nos.	4	5	2	9	3	
	Oil consumption for Warm starts- ups	kl	390	466	178	695	380	
	Number of Hot starts- ups	Nos.	8	8	2	4	1	
	Oil consumption for Hot starts- ups	kl	384	253	48	91	63	
VSTPS-III	Number of Cold starts- ups	Nos.	2	3	2	9	3	
	Oil consumption for Cold starts- ups	kl	528	470	515	1,163	900	
	Number of Warm starts- ups	Nos.	3	3	1	3		
	Oil consumption for Warm starts- ups	kl	230	235	155	290		
	Number of Hot starts- ups	Nos.	5	2	1	3	3	
	Oil consumption for Hot starts- ups	kl	225	44	80	94	191	
VSTPS-IV	Number of Cold starts- ups	Nos.	1	1	5	2	2	
	Oil consumption for Cold starts- ups	kl	333	748	1,042	257	301	
	Number of Warm starts- ups	Nos.	1	6	7	3		
	Oil consumption for Warm starts- ups	kl	91	303	487	153		
	Number of Hot starts- ups	Nos.	10	8	4	1	3	
	Oil consumption for Hot starts- ups	kl	466	374	136	80	169	
	Number of Cold starts- ups	Nos.	1	1	3	1	1	

NTPC Stations	Particulars	Units	2018-19	2019-20	2020-21	2021-22	2022-23	AVERAGE
VSTPS-V	Oil consumption for Cold starts- ups	kl	586	129	583	169	456	
	Number of Warm starts- ups	Nos.	4		1	3	1	
	Oil consumption for Warm starts- ups	kl	327		124	301	220	
	Number of Hot starts- ups	Nos.	2	1	1	1	1	
	Oil consumption for Hot starts- ups	kl	156	88	50	85	50	
Korba-III	Number of Cold starts- ups	Nos.		1		1	1	
	Oil consumption for Cold starts- ups	kl		591		443	993	
	Number of Warm starts- ups	Nos.	2	3			1	
	Oil consumption for Warm starts- ups	kl	244	209			96	
	Number of Hot starts- ups	Nos.	1	3			2	
	Oil consumption for Hot starts- ups	kl	67	124			176	
Sipat-II	Number of Cold starts- ups	Nos.	2	2	3	2	2	
	Oil consumption for Cold starts- ups	kl	607	476	637	641	644	
	Number of Warm starts- ups	Nos.	7	7	7	6	3	
	Oil consumption for Warm starts- ups	kl	1,200	942	841	1,087	546	
	Number of Hot starts- ups	Nos.	3	3	6		2	
	Oil consumption for Hot starts- ups	kl	277	217	388		196	
Ramagundam-III	Number of Cold starts- ups	Nos.	4	3	4	1	1	
	Oil consumption for Cold starts- ups	kl	1,012	222	801	158	666	
	Number of Warm starts- ups	Nos					1	
	Oil consumption for Warm starts- ups	kl					158	
	Number of Hot starts- ups	Nos.	2	2	2		2	
	Oil consumption for Hot starts- ups	kl	122	132	195		113	
Simhadri-I	Number of Cold starts- ups	Nos.	3	3	7	3	1	
	Oil consumption for Cold starts- ups	kl	391	284	1,933	914	567	
	Number of Warm starts- ups	Nos.	2	4	1	4	7	
	Oil consumption for Warm starts- ups	kl	177	368	118	690	1,096	
	Number of Hot starts- ups	Nos.	1	5	3	6	5	
	Oil consumption for Hot starts- ups	kl	59	286	183	641	567	
Simhadri-II	Number of Cold starts- ups	Nos.	2	3	6	2	4	
	Oil consumption for Cold starts- ups	kl	474	634	1,442	723	742	
	Number of Warm starts- ups	Nos.	8	5	2	6	5	
	Oil consumption for Warm starts- ups	kl	1,302	459	264	944	551	
	Number of Hot starts- ups	Nos.	6	4	1	3	1	
	Oil consumption for Hot starts- ups	kl	724	372	24	287	48	
Mauda-I	Number of Cold starts- ups	Nos.	5	5	8	2	4	
	Oil consumption for Cold starts- ups	kl	806	897	1,263	424	780	
	Number of Warm starts- ups	Nos.	1	7	2	10	4	
	Oil consumption for Warm starts- ups	kl	85	842	254	1,213	390	
	Number of Hot starts- ups	Nos.	13	7	2	1		
	Oil consumption for Hot starts- ups	kl	969	345	83	42		
Farakka-III	Number of Cold starts- ups	Nos.	4	7	3	3	5	
	Oil consumption for Cold starts- ups	kl	448	451	409	296	742	
	Number of Warm starts- ups	Nos	3	2	3	3		
	Oil consumption for Warm starts- ups	kl	145	48	100	124		
	Number of Hot starts- ups	Nos.	3	7	1	5		
	Oil consumption for Hot starts- ups	kl	237	570	145	468		
Kahalgaoon-II	Number of Cold starts- ups	Nos.	3	8	15	2	6	
	Oil consumption for Cold starts- ups	kl	1,359	1,568	2,612	915	1,676	
	Number of Warm starts- ups	Nos	12	6	4	9	12	
	Oil consumption for Warm starts- ups	kl	999	573	542	666	1,404	

<b>NTPC Stations</b>	<b>Particulars</b>	<b>Units</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>AVERAGE</b>
	Number of Hot starts- ups	Nos.	9	7	2	2	7	
	Oil consumption for Hot starts- ups	kl	698	373	231	152	588	
Talcher Super-I	Number of Cold starts- ups	Nos.	19	15	9	12	9	
	Oil consumption for Cold starts- ups	kl	2,290	3,039	1,261	3,835	2,248	
	Number of Warm starts- ups	Nos	3	7	6	1	1	
	Oil consumption for Warm starts- ups	kl	262	964	723	125	121	
	Number of Hot starts- ups	Nos.	3	7	2	3	1	
	Oil consumption for Hot starts- ups	kl	235	588	217	301	75	
Talcher Super-II	Number of Cold starts- ups	Nos.	9	13	21	19	8	
	Oil consumption for Cold starts- ups	kl	2,030	2,886	4,556	3,679	3,096	
	Number of Warm starts- ups	Nos	5	7	4	1	2	
	Oil consumption for Warm starts- ups	kl	367	602	509	164	341	
	Number of Hot starts- ups	Nos.	10	5	13		7	
	Oil consumption for Hot starts- ups	kl	519	285	901		464	
NTPC Coal Stations (500 MW Units)	<b>Number of Cold starts- ups</b>	<b>Nos.</b>	<b>78</b>	<b>88</b>	<b>115</b>	<b>81</b>	<b>65</b>	<b>85</b>
	<b>Oil consumption for Cold starts- ups</b>	<b>KL</b>	<b>13,880</b>	<b>15,931</b>	<b>21,661</b>	<b>19,925</b>	<b>16,949</b>	<b>17,669</b>
	<b>Oil cons per cold startup</b>	<b>KL/ startup</b>	<b>178</b>	<b>181</b>	<b>188</b>	<b>246</b>	<b>261</b>	<b>211</b>
	<b>Number of Warm starts- ups</b>	<b>Nos.</b>	<b>85</b>	<b>89</b>	<b>56</b>	<b>89</b>	<b>75</b>	<b>79</b>
	<b>Oil consumption for Warm starts- ups</b>	<b>KL</b>	<b>8,204</b>	<b>9,107</b>	<b>6,798</b>	<b>8,814</b>	<b>8,806</b>	<b>8,346</b>
	<b>Oil cons per Warm startup</b>	<b>KL/ startup</b>	<b>97</b>	<b>102</b>	<b>121</b>	<b>99</b>	<b>117</b>	<b>107</b>
	<b>Number of Hot starts- ups</b>	<b>Nos.</b>	<b>104</b>	<b>100</b>	<b>53</b>	<b>36</b>	<b>45</b>	<b>68</b>
	<b>Oil consumption for Hot starts- ups</b>	<b>KL</b>	<b>6,930</b>	<b>5,463</b>	<b>3,543</b>	<b>2,784</b>	<b>3,295</b>	<b>4,403</b>
	<b>Oil cons per Hot startup</b>	<b>KL/ startup</b>	<b>67</b>	<b>55</b>	<b>67</b>	<b>77</b>	<b>73</b>	<b>68</b>



**DETAILS OF OIL CONSUMPTION IN 660 MW UNITS DURING HOT, WARM & COLD START UPS**

<b>NTPC Stations</b>	<b>Particulars</b>	<b>Units</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>AVERAGE</b>
BARH ST-II (2 x 660 MW)	Number of Cold starts- ups	Nos.	1	1	1	2	3	
	Oil consumption for Cold starts- ups	kl	640	735	430	350	697	
	Number of Warm starts- ups	Nos	13	6	9	11	7	
	Oil consumption for Warm starts- ups	kl	1,322	668	951	1,305	1,908	
	Number of Hot starts- ups	Nos.	7	5	10	2	3	
	Oil consumption for Hot starts- ups	kl	375	315	557	155	285	
NABINAGAR (3 x 660 MW)	Number of Cold starts- ups	Nos.		5	7	7	14	
	Oil consumption for Cold starts- ups	kl		882	1,904	1,778	3,266	
	Number of Warm starts- ups	Nos		4	1	2	8	
	Oil consumption for Warm starts- ups	kl		905	130	304	588	
	Number of Hot starts- ups	Nos.		4	2	8	7	
	Oil consumption for Hot starts- ups	kl		365	210	419	384	
MAUDA ST-II (2 x 660 MW)	Number of Cold starts- ups	Nos.	12	11	9	8	5	
	Oil consumption for Cold starts- ups	kl	1,710	1,995	770	1,461	1,050	
	Number of Warm starts- ups	Nos.	10	7	7	4	9	
	Oil consumption for Warm starts- ups	kl	1,172	1,347	1,132	731	988	
	Number of Hot starts- ups	Nos.	7	2	2	7	3	
	Oil consumption for Hot starts- ups	kl	681	255	196	603	90	
SIPAT ST-I (3 x 660 MW)	Number of Cold starts- ups	Nos.	1	3	1	5	3	
	Oil consumption for Cold starts- ups	kl	688	1,801	814	2,047	1,726	
	Number of Warm starts- ups	Nos.	13	8	13	8	10	
	Oil consumption for Warm starts- ups	kl	2,402	1,229	3,306	1,087	2,032	
	Number of Hot starts- ups	Nos.	2	3	4	2	4	
	Oil consumption for Hot starts- ups	kl	262	310	463	199	355	
SOLAPUR STPS (2 x 660 MW)	Number of Cold starts- ups	Nos.	3	13	13	17	15	
	Oil consumption for Cold starts- ups	kl	2,243	4,141	3,605	3,685	3,885	
	Number of Warm starts- ups	Nos.	4		3		3	
	Oil consumption for Warm starts- ups	kl	403		140		535	
	Number of Hot starts- ups	Nos.	11	5	5	3	6	
	Oil consumption for Hot starts- ups	kl	138	509	39	679	245	
TANDA ST-II (2 x 660 MW)	Number of Cold starts- ups	Nos.		1	1	7	6	
	Oil consumption for Cold starts- ups	kl		383	515	1,764	2,532	
	Number of Warm starts- ups	Nos.		7	2	4	4	
	Oil consumption for Warm starts- ups	kl		1,499	143	439	374	
	Number of Hot starts- ups	Nos.		19	14	20	8	
	Oil consumption for Hot starts- ups	kl		3,684	2,231	3,548	1,492	
KHARGONE (2 x 660 MW)	Number of Cold starts- ups	Nos.			9	8	13	
	Oil consumption for Cold starts- ups	kl			3,276	1,759	4,079	
	Number of Warm starts- ups	Nos			1			
	Oil consumption for Warm starts- ups	kl			103			
	Number of Hot starts- ups	Nos.		5	8	10	4	
	Oil consumption for Hot starts- ups	kl		402	717	556	311	
NTPC Coal Stations (660 MW Units)	<b>Number of Cold starts- ups</b>	<b>Nos.</b>	<b>17</b>	<b>34</b>	<b>41</b>	<b>54</b>	<b>59</b>	<b>41</b>
	<b>Oil consumption for Cold starts- ups</b>	<b>KL</b>	<b>5,281</b>	<b>9,937</b>	<b>11,313</b>	<b>12,844</b>	<b>17,235</b>	<b>11,322</b>
	<b>Oil consumption per cold startup</b>	<b>KL/ startup</b>	<b>311</b>	<b>292</b>	<b>276</b>	<b>238</b>	<b>292</b>	<b>282</b>
	<b>Number of Warm starts- ups</b>	<b>Nos.</b>	<b>40</b>	<b>32</b>	<b>36</b>	<b>29</b>	<b>41</b>	<b>36</b>
	<b>Oil consumption for Warm starts- ups</b>	<b>KL</b>	<b>5,299</b>	<b>5,648</b>	<b>5,905</b>	<b>3,866</b>	<b>6,425</b>	<b>5,429</b>
	<b>Oil consumption per Warm startup</b>	<b>KL/ startup</b>	<b>132</b>	<b>176</b>	<b>164</b>	<b>133</b>	<b>157</b>	<b>153</b>
	<b>Number of Hot starts- ups</b>	<b>Nos.</b>	<b>27</b>	<b>43</b>	<b>45</b>	<b>52</b>	<b>35</b>	<b>40</b>
	<b>Oil consumption for Hot starts- ups</b>	<b>KL</b>	<b>1,456</b>	<b>5,840</b>	<b>4,412</b>	<b>6,159</b>	<b>3,162</b>	<b>4,206</b>
<b>Oil consumption per Hot startup</b>	<b>KL/ startup</b>	<b>54</b>	<b>136</b>	<b>98</b>	<b>118</b>	<b>90</b>	<b>99</b>	

**DETAILS OF OIL CONSUMPTION IN 800 MW UNITS DURING HOT, WARM & COLD START UPS**

<b>NTPC Stations</b>	<b>Particulars</b>	<b>Units</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>AVERAGE</b>
GADARWARA (2 x 800 MW)	Number of Cold starts- ups	Nos.		6	6	13	13	
	Oil consumption for Cold starts- ups	KL		2,264	2,934	7,420	5,146	
	Number of Warm starts- ups	Nos		3	2	3	3	
	Oil consumption for Warm starts- ups	kl		831	497	1,396	888	
	Number of Hot starts- ups	Nos.		2	3	7	9	
	Oil consumption for Hot starts- ups	kl		410	581	1,395	1,220	
KUDGI (3 x 800 MW)	Number of Cold starts- ups	Nos.	14	23	12	14	16	
	Oil consumption for Cold starts- ups	KL	4,479	8,213	3,511	4,889	4,565	
	Number of Warm starts- ups	Nos	5	1		2	3	
	Oil consumption for Warm starts- ups	kl	775	122		508	607	
	Number of Hot starts- ups	Nos.	9	2	4			
	Oil consumption for Hot starts- ups	kl	862	207	620			
DARLIPALLI (2 x 800 MW)	Number of Cold starts- ups	Nos.		1	11	11	9	
	Oil consumption for Cold starts- ups	KL		175	4,341	3,723	3,589	
	Number of Warm starts- ups	Nos			2	5	5	
	Oil consumption for Warm starts- ups	kl			818	2,802	1,488	
	Number of Hot starts- ups	Nos.			1	2	6	
	Oil consumption for Hot starts- ups	kl			42	749	1,223	
LARA (2 x 800 MW)	Number of Cold starts- ups	Nos.			19	7	10	
	Oil consumption for Cold starts- ups	KL			6,010	1,759	2,616	
	Number of Warm starts- ups	Nos		1	1			
	Oil consumption for Warm starts- ups	kl		162	180			
	Number of Hot starts- ups	Nos.		5	5	6	14	
	Oil consumption for Hot starts- ups	kl		554	715	1,146	3,265	
<b>NTPC Coal Stations (800 MW Units)</b>	<b>Number of Cold starts- ups</b>	<b>Nos.</b>	<b>14</b>	<b>30</b>	<b>48</b>	<b>45</b>	<b>48</b>	<b>37</b>
	<b>Oil consumption for Cold starts- ups</b>	<b>KL</b>	<b>4,479</b>	<b>10,652</b>	<b>16,796</b>	<b>17,791</b>	<b>15,916</b>	<b>13,127</b>
	<b>Oil consumption per cold startup</b>	<b>KL/ startup</b>	<b>320</b>	<b>355</b>	<b>350</b>	<b>395</b>	<b>332</b>	<b>350</b>
	<b>Number of Warm starts- ups</b>	<b>Nos.</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>11</b>	<b>7</b>
	<b>Oil consumption for Warm starts- ups</b>	<b>KL</b>	<b>775</b>	<b>1,115</b>	<b>1,495</b>	<b>4,706</b>	<b>2,983</b>	<b>2,215</b>
	<b>Oil consumption per Warm startup</b>	<b>KL/ startup</b>	<b>155</b>	<b>223</b>	<b>299</b>	<b>471</b>	<b>271</b>	<b>284</b>
	<b>Number of Hot starts- ups</b>	<b>Nos.</b>	<b>9</b>	<b>9</b>	<b>13</b>	<b>15</b>	<b>29</b>	<b>15</b>
	<b>Oil consumption for Hot starts- ups</b>	<b>KL</b>	<b>862</b>	<b>1,171</b>	<b>1,958</b>	<b>3,291</b>	<b>5,709</b>	<b>2,598</b>
<b>Oil consumption per Hot startup</b>	<b>KL/ startup</b>	<b>96</b>	<b>130</b>	<b>151</b>	<b>219</b>	<b>197</b>	<b>159</b>	