

TTC/ATC calculation of JUSNL for month: October- 2024

Import TTC:

Sl. No.	Control area	TTC	RM	ATC	Limiting contingency N-1 & loading of the limiting equipment under that contingency
1.	JUSNL	1951 MW	42 MW	1909 MW	JUSNL internal limiting element are :- 1. 132 KV Maithon-Jamtara T/L 2. 132 KV Kahalgaon-Lalmatia 3. 220 kV Maithon-Dumka New D/C Max Possible Generation for October 2024-450 MW Total load = 2098 MW Total Generation = 203 MW

Assumptions for Import TTC:

Sl. No.	Station wise (MW) Generation considered (132kv & above)	Injection (+)/ Withdrawal (-) MW considered for each embedded IPP at 132kv & above(if any)	Station wise demand(MW) Considered (132kv & above)	Lines/ elements considered to be normally switched off or under forced outage(if any)	Generati ng units under forced outage(if any)	SPS consi dered (if any)																																																																																																																																																																																																															
1.	TTPS unit I&II = 135 MW	3. CPP+IPP = 68 MW	<table><thead><tr><th>Bus Number</th><th>Bus Name</th><th>Pload (MW)</th></tr></thead><tbody><tr><td>221000</td><td>JAPLA 132.00</td><td>29</td></tr><tr><td>221002</td><td>ADITPUR 132.00</td><td>58</td></tr><tr><td>221003</td><td>RAJKSWN 132.00</td><td>26</td></tr><tr><td>221004</td><td>MANIQUE 132.00</td><td>48</td></tr><tr><td>221005</td><td>PATRATU 132.00</td><td>27</td></tr><tr><td>221008</td><td>GOELKRA 132.00</td><td>26</td></tr><tr><td>221010</td><td>KENDPOSI 132.00</td><td>30</td></tr><tr><td>221011</td><td>GOLMURI 132.00</td><td>63</td></tr><tr><td>221012</td><td>JADUGORA 132.00</td><td>34</td></tr><tr><td>221013</td><td>NOAMUNDI 132.00</td><td>26</td></tr><tr><td>221014</td><td>LALMATIA 132.00</td><td>44</td></tr><tr><td>221015</td><td>DEOGHAR 132.00</td><td>55</td></tr><tr><td>221016</td><td>NAMKUM 132.00</td><td>130</td></tr><tr><td>221017</td><td>KAMDARA 132.00</td><td>28</td></tr><tr><td>221018</td><td>JAMTARA 132.00</td><td>64</td></tr><tr><td>221019</td><td>GARWAH 132.00</td><td>65</td></tr><tr><td>221020</td><td>LOHARDAGA 132.00</td><td>50</td></tr><tr><td>221021</td><td>HATIA1 132.00</td><td>135</td></tr><tr><td>221023</td><td>TOLRA 132.00</td><td>0.1538</td></tr><tr><td>221024</td><td>HEC1 132.00</td><td>10</td></tr><tr><td>221025</td><td>LODHIMA 132.00</td><td>0.1538</td></tr><tr><td>221027</td><td>DUMKA 132.00</td><td>55</td></tr><tr><td>221028</td><td>SAHEBGANJ 132.00</td><td>42</td></tr><tr><td>221029</td><td>CHAKRADPUR 132.00</td><td>10</td></tr><tr><td>221034</td><td>DALTONGANJ 132.00</td><td>70</td></tr><tr><td>221041</td><td>CHAIBASA NEW132.00</td><td>30</td></tr><tr><td>221044</td><td>KANKE 132.00</td><td>80</td></tr><tr><td>221046</td><td>TAMAR 132.00</td><td>28</td></tr><tr><td>221047</td><td>TATISIL RLY 132.00</td><td>0.402</td></tr><tr><td>221048</td><td>BAKASPUR RLY132.00</td><td>0.3869</td></tr><tr><td>221049</td><td>GUMLA 132.00</td><td>35</td></tr><tr><td>221050</td><td>RKSN RLY 132.00</td><td>0.3092</td></tr><tr><td>221053</td><td>CHAIBASA RUN132.00</td><td>8</td></tr><tr><td>221054</td><td>GOILKERA RLY132.00</td><td>0.1594</td></tr><tr><td>221056</td><td>KENDPOSI RLY132.00</td><td>0.1538</td></tr><tr><td>221057</td><td>CKP RLY 132.00</td><td>0.1538</td></tr><tr><td>221058</td><td>DALBUMGARH 132.00</td><td>38</td></tr><tr><td>221060</td><td>MADHUPUR 132.00</td><td>25</td></tr><tr><td>221061</td><td>JAMTARA RLY 132.00</td><td>15</td></tr><tr><td>221062</td><td>DEOGHAR RLY 132.00</td><td>8</td></tr><tr><td>221063</td><td>PAKUR 132.00</td><td>65</td></tr><tr><td>221064</td><td>LATEHAR 132.00</td><td>38</td></tr><tr><td>221065</td><td>MANOHARPUR 132.00</td><td>5</td></tr><tr><td>221066</td><td>BANO RLY 132.00</td><td>2.9914</td></tr><tr><td>221067</td><td>MANGO 132.00</td><td>40</td></tr><tr><td>221068</td><td>SIMDEGA 132.00</td><td>26</td></tr><tr><td>221069</td><td>RAJMAHAL 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Import TTC:

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1.	JUSNL	2285 MW	46 MW	2008 MW	JUSNL internal limiting element are :- 132 KV Maithon-Jamtara T/L 132 KV Kahalgaon-Lalmatia 220 kv Maithion-Dumka New D/C Max Possible Generation for September 2025-450 MW Total load = 2285 MW Total Generation = 296 MW

Assumptions for Import TTC:

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CPP+IPP = 66 MW	<table><tr><th>Bus Number</th><th>Bus Name</th><th>Pload (MW)</th></tr><tr><td>221000</td><td>JAPLA 132.00</td><td>37</td></tr><tr><td>221002</td><td>ADITPUR 132.00</td><td>65</td></tr><tr><td>221003</td><td>RAJKSWN 132.00</td><td>30</td></tr><tr><td>221004</td><td>MANIQUE 132.00</td><td>52</td></tr><tr><td>221005</td><td>PATRATU 132.00</td><td>26</td></tr><tr><td>221008</td><td>GOELKRA 132.00</td><td>28</td></tr><tr><td>221010</td><td>KENDPOSI 132.00</td><td>29</td></tr><tr><td>221011</td><td>GOLMURI 132.00</td><td>70</td></tr><tr><td>221012</td><td>JADUGORA 132.00</td><td>35</td></tr><tr><td>221013</td><td>NOAMUNDI 132.00</td><td>28</td></tr><tr><td>221014</td><td>LALMATIA 132.00</td><td>50</td></tr><tr><td>221015</td><td>DEOGHAR 132.00</td><td>62</td></tr><tr><td>221016</td><td>NAMKUM 132.00</td><td>136</td></tr><tr><td>221017</td><td>KAMDARA 132.00</td><td>30</td></tr><tr><td>221018</td><td>JAMTARA 132.00</td><td>63</td></tr><tr><td>221019</td><td>GARWAH 132.00</td><td>68</td></tr><tr><td>221020</td><td>LOHARDAGA 132.00</td><td>56</td></tr><tr><td>221021</td><td>HATIA1 132.00</td><td>145</td></tr><tr><td>221023</td><td>TOLRA 132.00</td><td>0.1538</td></tr><tr><td>221024</td><td>HEC1 132.00</td><td>12</td></tr><tr><td>221025</td><td>LODHMA 132.00</td><td>0.1538</td></tr><tr><td>221027</td><td>DUMKA 132.00</td><td>58</td></tr><tr><td>221028</td><td>SAHEBGANJ 132.00</td><td>43</td></tr><tr><td>221029</td><td>CHAKRADPUR 132.00</td><td>15</td></tr><tr><td>221034</td><td>DALTONGANJ 132.00</td><td>68</td></tr><tr><td>221041</td><td>CHAIBASA NEW132.00</td><td>30</td></tr><tr><td>221044</td><td>KANKE 132.00</td><td>92</td></tr><tr><td>221046</td><td>TAMAR 132.00</td><td>33</td></tr><tr><td>221047</td><td>TATISIL RLY 132.00</td><td>0.402</td></tr><tr><td>221048</td><td>BAKASPUR RLY132.00</td><td>0.3869</td></tr><tr><td>221049</td><td>GUMLA 132.00</td><td>44</td></tr><tr><td>221050</td><td>RKSN RLY 132.00</td><td>0.3092</td></tr><tr><td>221053</td><td>CHAIBASA RUN132.00</td><td>9</td></tr><tr><td>221054</td><td>GOILKERA RLY132.00</td><td>0.1594</td></tr><tr><td>221056</td><td>KENDPOSI RLY132.00</td><td>0.1538</td></tr><tr><td>221057</td><td>CKP RLY 132.00</td><td>0.1538</td></tr><tr><td>221058</td><td>DALBUMGARH 132.00</td><td>40</td></tr><tr><td>221060</td><td>MADHUPUR 132.00</td><td>25</td></tr><tr><td>221061</td><td>JAMTARA RLY 132.00</td><td>15</td></tr><tr><td>221062</td><td>DEOGHAR RLY 132.00</td><td>8</td></tr><tr><td>221063</td><td>PAKUR 132.00</td><td>35</td></tr><tr><td>221064</td><td>LATEHAR 132.00</td><td>12</td></tr><tr><td>221065</td><td>MANOHARPUR 132.00</td><td>6</td></tr><tr><td>221066</td><td>BANO RLY 132.00</td><td>2.9914</td></tr><tr><td>221067</td><td>MANGO 132.00</td><td>44</td></tr><tr><td>221068</td><td>SIMDEGA 132.00</td><td>26</td></tr><tr><td>221069</td><td>RAJMAHAL 132.00</td><td>32</td></tr><tr><td>221070</td><td>SHREE CEMENT132.00</td><td>2.0503</td></tr><tr><td>221071</td><td>KHUNTI 132.00</td><td>30</td></tr><tr><td>221072</td><td>GOVINDPUR 132.00</td><td>58</td></tr><tr><td>221073</td><td>KARAMTOLA RL132.00</td><td>5.312</td></tr><tr><td>221074</td><td>GODDA 132.00</td><td>48</td></tr><tr><td>221075</td><td>JASIDIH 132.00</td><td>45</td></tr><tr><td>221076</td><td>GIRIDIH 132.00</td><td>48</td></tr><tr><td>221077</td><td>SARIA 132.00</td><td>35</td></tr><tr><td>221078</td><td>JAMUA 132.00</td><td>42</td></tr><tr><td>221079</td><td>GARHWA NEW 132.00</td><td>45</td></tr><tr><td>221081</td><td>CHITRA 132.00</td><td>30</td></tr><tr><td>221083</td><td>GIS RANCHI 33.000</td><td>1.1274</td></tr><tr><td>221084</td><td>NAGARUNTARI 132.00</td><td>14</td></tr><tr><td>221085</td><td>CHATRA 132.00</td><td>42</td></tr><tr><td>221086</td><td>RATU132 132.00</td><td>46</td></tr><tr><td>221087</td><td>JARMUNDI 132.00</td><td>12</td></tr><tr><td>221089</td><td>JAINAMORE 132.00</td><td>25</td></tr><tr><td>221090</td><td>CHANDANKYARI132.00</td><td>21</td></tr><tr><td>221091</td><td>BARHAIT 132.00</td><td>9</td></tr><tr><td>221092</td><td>KUNDHIT 132.00</td><td>5</td></tr><tr><td colspan="2">TOTAL</td><td>2285.3538</td></tr></table>	Bus Number	Bus Name	Pload (MW)	221000	JAPLA 132.00	37	221002	ADITPUR 132.00	65	221003	RAJKSWN 132.00	30	221004	MANIQUE 132.00	52	221005	PATRATU 132.00	26	221008	GOELKRA 132.00	28	221010	KENDPOSI 132.00	29	221011	GOLMURI 132.00	70	221012	JADUGORA 132.00	35	221013	NOAMUNDI 132.00	28	221014	LALMATIA 132.00	50	221015	DEOGHAR 132.00	62	221016	NAMKUM 132.00	136	221017	KAMDARA 132.00	30	221018	JAMTARA 132.00	63	221019	GARWAH 132.00	68	221020	LOHARDAGA 132.00	56	221021	HATIA1 132.00	145	221023	TOLRA 132.00	0.1538	221024	HEC1 132.00	12	221025	LODHMA 132.00	0.1538	221027	DUMKA 132.00	58	221028	SAHEBGANJ 132.00	43	221029	CHAKRADPUR 132.00	15	221034	DALTONGANJ 132.00	68	221041	CHAIBASA NEW132.00	30	221044	KANKE 132.00	92	221046	TAMAR 132.00	33	221047	TATISIL RLY 132.00	0.402	221048	BAKASPUR RLY132.00	0.3869	221049	GUMLA 132.00	44	221050	RKSN RLY 132.00	0.3092	221053	CHAIBASA RUN132.00	9	221054	GOILKERA RLY132.00	0.1594	221056	KENDPOSI RLY132.00	0.1538	221057	CKP RLY 132.00	0.1538	221058	DALBUMGARH 132.00	40	221060	MADHUPUR 132.00	25	221061	JAMTARA RLY 132.00	15	221062	DEOGHAR RLY 132.00	8	221063	PAKUR 132.00	35	221064	LATEHAR 132.00	12	221065	MANOHARPUR 132.00	6	221066	BANO RLY 132.00	2.9914	221067	MANGO 132.00	44	221068	SIMDEGA 132.00	26	221069	RAJMAHAL 132.00	32	221070	SHREE CEMENT132.00	2.0503	221071	KHUNTI 132.00	30	221072	GOVINDPUR 132.00	58	221073	KARAMTOLA RL132.00	5.312	221074	GODDA 132.00	48	221075	JASIDIH 132.00	45	221076	GIRIDIH 132.00	48	221077	SARIA 132.00	35	221078	JAMUA 132.00	42	221079	GARHWA NEW 132.00	45	221081	CHITRA 132.00	30	221083	GIS RANCHI 33.000	1.1274	221084	NAGARUNTARI 132.00	14	221085	CHATRA 132.00	42	221086	RATU132 132.00	46	221087	JARMUNDI 132.00	12	221089	JAINAMORE 132.00	25	221090	CHANDANKYARI132.00	21	221091	BARHAIT 132.00	9	221092	KUNDHIT 132.00	5	TOTAL		2285.3538	1. 132KV MNQ – MNQ line 2. 132KV Patratu(DVC)- Patratu(JUSNL) line 3. 132KV Deoghar-Sultanganj line	Nil	Nil
Bus Number	Bus Name	Pload (MW)																																																																																																																																																																																																																			
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2.	SHPS Hydel unit I & II =50 MW																																																																																																																																																																																																																				

Import of Jharkhand Transfer Capability for October-24

S.N	Corridor/Control Area	Date	Time Period	Time Blocks	Total Transfer Capability (TTC) (MW)	Reliability Margin (RM) (MW)	Available Transfer Capability (ATC) (MW)	Approved GNA (MW)	Margin for T- GNA (MW)	Changes in TTC w.r.t last revision	Remarks
1	JUSNL	1.10.24 to 31.10.24	00 to 24 hrs	1 to 96	1951	42	1909	1580	329		Max. gen-450 MW, Load-2098 MW
Limiting Constraints :- 1. 132 KV Maithon-Jamtara T/L 2. 132 KV Kahalgaon-Lalmatia 3. 220 kv Maithion-Dumka New D/C											

✓

168
131

ml #

(91