

Annexure - IA**Allocation of water in different sectors in river basins of Jharkhand based on the report of Second Bihar State Irrigation Commission - 1994****Unit : Million Cubic Meter (MCM)/Annum**

S.N.	Description	North Koel	Bilasi Chandan Chir	Gumani & Koa Bhena	Mayurakshi	Ajay	South Koel	Damodar (Excluding Barakar)	Barakar	Swarnarekha (Excluding Kharkai)	Kharkai
1	2	3	4	5	6	7	8	9	10	11	12
(i)	Municipal	96.38	36.03	114.72	90.25	34.51	106.31	382.95	129.46	260.83	62.06
(ii)	Industrial	237.62	44.97	104.61	252.75	190.62*	498.68	721.05	8.54	1032.17	262.94
(iii)	Irrigation (Major, Medium & Minor)	901	351.53	400.78	994	827.26*	1759.96	674	211	1456	684.3
(iv)	Inter basin Transfer	950	0	0	0	14.98	1034.98	185	227.5	0	0
(v)	River releases	42	107.81	844.72	951	57.84	629.99	1437	1823.5	483	75.7
Total water availability (Summation of Sl. No. (i) to (v))		2227	540.34	1464.83	2288	1125.21	4029.92	3400	2400	3232	1085

*Additional major and medium irrigation projects of 63.37 MCM have been projected over and above to 827.26 MCM in Irrigation Commission Report-1994. Therefore, actual industrial water provision of 190.62 MCM will be reduced to 127.25 MCM in Ajay basin.

Status of Industrial water in river basins of Jharkhand

Unit : Million Cubic Meter (MCM)/Annum

S.N.	Description	North Koel	Bilasi Chandan Chir	Gumani & Koa Bhena	Mayurakshi	Ajay	South Koel	Damodar (Excluding Barakar)	Barakar	Swarnarekha (Excluding Kharkai)	Kharkai
1	2	3	4	5	6	7	8	9	10	11	12
(i)	Total Industrial water available	237.62	44.97	104.61	252.75	127.25	498.68	721.05	8.54	1032.17	262.94
(ii)	Water already allocated and agreements done (Annexure - II)	3.33	0	0	0	0	0	304.33	0	177.87	9.605
(iii)	In principle approval issued but agreement not executed (Annexure-III)	22	17.97	1.2	112.05	0	57.405	125.24	177.12	347.69	42.74
(iv)	Industrial water available after agreement [(i)-(ii)]	234.29	44.97	104.61	252.75	127.25	498.68	416.72	8.54	854.3	253.335
(v)	Industrial water available after agreement & allocation [(iv)-(iii)]	212.29	27.00	103.41	140.7	127.25	441.275	291.48	-168.58	506.61	210.595
(vi)	Total pending industrial demand (Annexure - IV)	83.22	0	22.02	25.50	158.80	308.02	847.12	0	679.65	220.97
(vii)	Net water availability after accounting for total pending industrial demand [(v)-(vi)]	129.07	27.00	81.39	115.2	-31.55	133.255	-555.64	-168.58	-173.04	-10.375

* Water has been allocated from Tilaiya dam in Barakar sub-basin.

Annexure-II

List of industries in different river basins to which water has been allocated and agreement has been executed.

S.N.	Name of Industry	Plant capacity	Allocation (MCM)	Date of Agreement
1	2	3	4	5
(A) North Koel Basin :				
1	M/S Bihar Caustic and Chemical Ltd., Garhwa		3.33	19/03/2004
(B) Damodar Basin				
1	Bokaro Steel Plant (250 cusecs) [Through Tenu-Bokaro Canal]		202.03	23/01/2010
2	Electro Steel Casting Ltd.	3.0 MTPA Steel Plant & 180 MW CPP	36.50	21/01/2012
3	Brahamaputra Metalics Ltd.	0.30 MTPA Steel Plant & 60 MW CPP	11.30	22/02/2012
4	Inland Power Ltd.	126 MW (2 X 63 MW)	4.50	16/02/2012
5	M/s Essar Power Ltd.	2000 MW	50.00	20/03/2012
Sub Total (B)			304.33	
(C) Swarnarekha Basin (Excluding Kharkai)				
1	M/s Usha Martin, Jamshedpur		4.98	16/05/1994
2	M/s Hindalco Industries Ltd, Muri	6.50 MT & 1350 MW	4.38	21/05/2008
3	M/s Usha Martin, Tatisilway (3.50/0.13)	Cable manufacturer	1.3	24/05/2007
4	M/s Adhunik Thermal Energy (M/s Adhunik Power and Natural Resources Pvt. Ltd.)	1000 MW Thermal Power Plant	35.75	29/08/2008
5	M/s Konihoor Steel Pvt. Ltd	0.25 MT Steel Plant	5.26	05/04/2006
6	M/s TATA Steel Co. Pvt. Ltd.	5 MT Steel Plant	124.45	
7	M/s Adhunik Alloys & Power Ltd.	6.58 MT & 145 MW	1.75	02/08/2005
Sub Total (C)			177.87	
(D) Kharkai Basin				
1	Rungta Mines Ltd.	0.51 MT & 36 MW	1.825	23/08/2007
2	AML Steel & Power Plant Ltd.	1.74 MT & 312 MW	3.07	01/02/2010
3	M/s Ballabh Steel Ltd.	Steel Plant	4.38	18/12/2007
4	Jupiter cement Industries Ltd.	6000 TPD Cement Plant with 20 MW CPP.	0.33	24/03/2012/ 09/05/2012
Sub Total (D)			9.605	
Grand Total (17 Industries)			495.14	

Annexure - III

List of industries in different river basins to which In-principle permission has been given by WRD but agreement has not been executed.

S.N.	Name of Industry	Plant capacity	Allocation (MCM)	Date of giving in-principle permission	Remarks
1	2	3	4	5	6
(A) North Koel Basin :					
1	M/S Essar Power Ltd.		22	22/02/2008	
Sub Total (A) :			22		
(B) Bilasi Chandan Chir Basin					
1	M/S Jindal Steel & Power Ltd.	1000 MW (2X500 MW) Power Plant	17.97	05/05/2010	
(C) Gumani Basin & Koa Bhena					
1	M/S Jindal Steel & Power Ltd.	For beneficiation plant during extraction of Coal Mines.	1.20	02/02/2009	
(D) Mayurakshi Basin					
1	M/S CESC Pvt Ltd.	1000 MW CPP	40.05	06/08/2007	
2	M/S Gagan Sponge Iron Ltd.	1000 MW CPP	36	21/11/2008	
3	M/S Jindal Steel & Power Ltd.	1000 MW CPP	36	21/11/2008	
Sub Total (D) :			112.05		
(E) South Koel Basin					
1	M/S Tata Steel.	12 MT	41.52	21/02/2006	
2	M/S Jindal Steel & Power Ltd	For washing & beneficiation plant during extraction of Iron ore.	13.14	17/11/2008	
3	M/S Usha Martin Ltd.	For washing & beneficiation plant during extraction of Iron ore.	0.055	02/04/2008	
4	Bhushan Power & Steel Ltd.	For washing & beneficiation plant during extraction of Iron ore.	0.64	24/09/2010	
5	Arcelor Mittal India Ltd.	For washing & beneficiation plant during extraction of Iron & manganese ore.	0.22	29/12/2010	
6	Horizon Loha Udyog Pvt. Ltd.	0.40 MTPA Sponge Iron Plant	1.83	15/05/2012	
Sub Total (E) :			57.405		
(F) Damodar Basin					
1	M/S Corporate Ispat Alloy Ltd. (Power Plant)	1215 MW	19.3	30/01/2008	
2	M/s Jharkhand Ispat Pvt Ltd	Steel Plant	4.40	16/11/2005	
3	M/S Jindal Steel & Power Ltd.(Steel & Power) [69 MCM from surface water & 18 MCM from Nalkari dam]	6 MTPA Steel Plant & 500 MW TPP	66.54	24/04/2010	
4	Arcelor Mittal India Ltd.	6 MTPA Steel Plant & 600 MW CPP	35.00	05/05/2010	

Annexure - III

List of industries in different river basins to which In-principle permission has been given by WRD but agreement has not been executed.

S.N.	Name of Industry	Plant capacity	Allocation (MCM)	Date of giving in-principle permission	Remarks
Sub Total (F) :			125.24		
(G)	Barakar Basin				
1	Ultra Mega Power Project (UMPP)	4000 MW	97.9		Water Allocated by DVRRC
2	Koderma Thermal Power Project, Phase-I	1000 MW	43.62		
3	Koderma Thermal Power Project, Phase-II	1320 MW (2X660 MW)	35.6		
Sub Total (G) :			177.12		
(H)	Swarnarekha Basin (Excluding Kharkai)				
1	M/s JSW Steel Ltd., Sonahatu	10 MT & 900 MW	132.8	09/04/2008	
2	M/s Hindalco Industries Ltd, Sonahatu	6.50 MT & 1350 MW	55	03/07/2008	
3	M/s Bihar Sponge Iron		4.97		
4	M/s Jindal Steel & Power Ltd., Asanbani, Ghatshila	5 MT	50	07/07/2008	
5	Housing Development Infrastructure Ltd. (HDIL)	1320 MW	47	19/06/2008	MOU Cancelled by Energy Deptt.
6	M/S Bhushan Steel & Power Ltd.	3 MT & 900 MW	57.92	06/12/2008	
Sub Total (H) :			347.69		
(I)	Kharkai Basin				
1	Sunflag Iron & Steel Co. Ltd.	1.09 MT	8.76	28/10/2005	
2	Corporate Ispat & Alloys Ltd.	2.5 MT	5.26	13/09/2010	
3	Abhijeet Infrastructure Ltd.	0.75 MT	3.98	13/09/2010	
4	Corporate Ispat & Alloys Ltd.	2.5 MT	24.74	04/06/2011	
Sub Total (I) :			42.74		

Annexure - IV**List of industries in different river basins to which water has not been allocated by WRD till date (Pending application for demand of water)**

S.N.	Name of Industry	Plant capacity	Demand (MCM)	Remarks
1	2	3	4	5
(A) North Koel Basin :				
1	M/S Electrosteel Casting Ltd. (Power Plant)	1000 MW	39.00	
2	Usha Martin Ltd.	1200 MW	42.72	No MOU
3	Kaundansahya Power Generation (P) Ltd.	120 MW (2X60 MW)	1.50	Comfort letter issued.
Sub Total (A) :			83.22	
(B) Gumani Basin				
1	M/S Jindal Steel & Power Ltd.	1000 MW	22.02	
(C) Mayurakshi Basin				
1	M/S CESC Pvt Ltd.	500 MW	22	
2	EMTA Coal Ltd.	100 MW (2X50 MW)	3.50	
Sub Total (C) :			25.50	
(D) Ajay Basin				
1	M/s Brahmi Impex Ltd.	1.10 MT & 50 MW (2X25 MW)	10.51	
2	M/s Jagdamba Fiscal Services Ltd.	1.10 MT & 50 MW (2X25 MW)	10.51	
3	M/s Dalmia Power Ltd.	1320 MW	47	Comfort letter issued.
4	M/s East West Power Generation Co. Ltd.	1320 MW	47	
5	M/s Jai Balaji Industries Ltd.	1250 MW	43.78	
Sub Total (D) :			158.80	
(E) South Koel Basin				
1	Anandita Traders & Investment Ltd.	For washing & beneficiation plant during extraction of Iron ore.	0.02	
2	JSW Jharkhand Steel Ltd.	For washing & beneficiation plant during extraction of Iron & manganese ore.	3.32	
3	Orissa Manganese & Minerals Pvt. Ltd.	For Palletisation Plant	4.38	
4	Chaibasa Steel Private Ltd.	0.40 MTPA Sponge Iron Plant & 25 MW CPP	1.83	
5	Balaji Industrial Engineering Ltd.	0.15 MTPA Sponge Iron Plant & 15 MW CPP	1.86	
6	Pawanjay Steel & Power Ltd.	0.3 MT	1.5	

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S.N.	Name of Industry	Plant capacity	Demand (MCM)	Remarks
7	WELSPUN Energy Jharkhand Pvt. Ltd.	1980 MW (3X660 MW)	65	
8	Thakurani Iron Ore Mines	Washing & Dust Suppression	0.11	
9	Viraj Solar Pvt. Ltd.	1320 MW (2X660 MW)	45	
10	Vodeocon Industries Ltd.	1320 MW (2X660 MW)	50	
11	Jindal Power Ltd.	2640 MW (4X660 MW)	95	
12	Karanpura Energy Ltd.	1320 MW (2X660 MW)	40	
Sub Total (E) :			308.02	
(F) Damodar – Barakar Basin				
(I) Industries in upstream of Tenughat Dam.				
1	Corporate Power Ltd.	1215 MW Power Plant (2nd Phase-MW)	24.53	
2	M/s Jaiswal Nico Ltd. Higna Road Nagpur	500 MW Power Plant	19.3	
3	Alok Steel Industry Pvt Ltd.	Steel Plant	10.51	
4	ONGC	For drilling operation	0.02	
5	M/s Era Infra Engineering Ltd	1200 MW Power Plant	62.2	
6	Bokaro Jaypee Cement Ltd	Cement Plant	0.27	
7	M/s Radha Casting & Metallie Ltd (Mandu, Hazaribagh)	Steel Plant	6.75	
8	M/S Anandita Traders & Investment Ltd.	0.334 MTPA Sponge iron plant 12 MW CPP	3.5	
9	M/s Ramgarh Sponge Iron Pvt Ltd. at Giddi, Ramgarh	Steel Plant	5.04	
Sub Total (F) (I) (1) to (9) :			132.12	
(II) Industries in downstream of Tenughat Dam.				
1	M/s Brahmi Impex Pvt. Ltd.	1.10 MTPA & 50 MW (2 X 25 MW) CPP	13.14	
2	M/s Adhunik Corporation Limited	1.10 MTPA & 50 MW (2 X 25 MW) CPP	14.45	

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S.N.	Name of Industry	Plant capacity	Demand (MCM)	Remarks
3	M/s Ranchi Casting Private Limited	Steel Plant	14.45	
4	M/s Shyam Steel Industries Ltd	Steel Plant	35.72	
5	M/s B. M. W. Industrial Ltd	Steel Plant	3.17	
6	M/S Monnet Ispat & Energy Ltd.	1.50 MTPA Steel Plant & 280 MW CPP	35.6	
7	Shyam Energy Ltd.	1000 MW Power Plant	43.8	No MOU
8	Balmukund Sponge & Iron Ltd.	15 MW Power Plant	0.73	
9	Welspun Energy Jharkhand Pvt. Ltd.	1980 MW (3X660 MW)	67	No MOU
10	M/S Viraj Solar Pvt. Ltd.	1320 MW (2X660 MW)	45	No MOU
11	India Power Corporation Ltd.	3300 MW (5X660 MW)	133.5	No MOU
Sub Total (D) (II) (1) to (11) :			406.56	
(III) Other essential commitment in Damodar basin				
1	Replenishment from Tenughat Dam to supplement water requirement of existing Bokaro Thermal Power Station of DVC which will cover under water share of D.V.C. from Tenughat Dam as per Inter-state agreement.		221	
2	Industrial use from surface water to North Karnpura, I & II of NTPC [Ref : SBSICR - 1994, Vol - III, Page - 288] (70.00+17.44)		87.44	
Sub Total (F) (III) (1) & (2) :			308.44	
Sub Total (F) (I) to (III) :			847.12	
(G) Swarnarekha Basin (Excluding Kharkai)				
1	Divine Vidyut Ltd.	20 MW	0.11	
2	M/s Konti Steel	3.85 MT & 164 MW	35.04	
3	M/s Manikaran Power Ltd.	20 MW	0.06	
4	M/s Essel Mining &	1.2 MT & 60 MW	21.9	
5	M/s Narshing Ispat Ltd.	0.25 MT	2.75	
6	M/s Vini Ispat & Udyog Ltd.	0.60 MT	10.07	

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S.N.	Name of Industry	Plant capacity	Demand (MCM)	Remarks
7	M/s TATA Greenfield Project.	12 MT	166.06	
8	M/s TISCO Ltd., Jamshedpur (Expansion Plant)	5 MT to 10 MT	100.00	
9	M/s TATA Power	1800 MW	55.58	
10	Rashmi Metallics Ltd.	3 MT & 900 MW	95.05	
11	M/s Bhushan Steel Ltd.	6 MT & 600 MW	20	
12	M/s Mukand Ltd.	2 MT	15	
13	M/s Jindal Pipes Ltd.		16.43	
14	Maa Laxmi Jharkhand Power Pvt. Ltd., Hyderabad	2640 MW (2X1320 MW)	89	
15	Uranium Corporation of India.		5.84	
16	Centom Industries Ltd.	0.60 MT Sponge Iron	1.95	
17	Kohinoor Power Ltd.	66 MW	2.10	
18	M/s Neelachal Iron &		7.11	
19	Shyam Energy Ltd.	1000 MW	35.60	
Sub Total (G) :			679.65	
(H)	Kharkai Basin			
1	Essar Steel Ltd.	3 MT for first phase, 6 MT for second phase & 10 MT for third phase.	48	
2	Rungta Mines Ltd.	0.51 MT & 36 MW	3.3	
3	Uranium Corporation of India. (Priority Sl. no.-3 fixed by the industry department vide letter no.-702 dt.03.4.2007)		6.57	
4	Visa Steel Ltd.	2.5 MT	52.56	
5	Sinosteel India Pvt. Ltd.	1.5 MT ISP	14.9	
6	Visa Power Ltd.	2500 MW	93.45	
7	Jagannathpur Steel Ltd.	1.0 MTPA Steel plant & 180 MW CPP	2.19	
Sub Total (H) :			220.97	