

**ANNEXURE - B**

**MAJOR ASH HANDLING CONTRACTS NOW UNDER EXECUTION BY  
DC INDUSTRIAL PLANT SERVICES PRIVATE LIMITED**

SL. NO.	PLANT	OWNER	ORDER REF. & DATE	PROJECT STATUS	JOB DESCRIPTION
01	DVC - Chandrapura Thermal Power Station, Extn. Unit #7 & #8 (2 x 250 MW)	Damodar Valley Corporation, Kolkata Thru' BHEL/ISG, Bangalore	LOI No. : 77/05/0015/SRK Dt.26.04.2005	Commissioning :- Unit # 7 – Wet System Commissioned in September, 2009. Unit # 8 – Wet System Commissioned in March, 2010.  Unit #7– Dry System Commissioned in July, 2012. Unit #8 – Dry System Commissioning in June, 2014	Bottom ash system with water impounded hopper and jet pumping (2 x 60 TPH) upto slurry sump. Fly ash vacuum conveying system (2 x 60 TPH) upto bag filter and surge hopper for dry collection, fly ash wet disposal system through wetting unit-collector tank (2 x 60 TPH). Pressure conveying system from surge hopper (1 x 120 TPH) to a remote silo (approximately 850 M distance), slurry pumping (620 m <sup>3</sup> /hr.), water and instrument air system along with complete electrical & civil design work on turnkey basis for the complete ash handling system.
02	DVC - Mejia Thermal Power Station, Unit #5 & #6 (2 x 250 MW)	Damodar Valley Corporation, Kolkata Thru' BHEL/PS-ER, Kolkata	PSER:SCT: MJA-M530:04:PO:0024 Dt.23.05.2005	Commissioning :- Unit # 5 – Wet System Commissioned in March, 2008 Unit # 6 – Wet System Commissioned in May, 2008  Dry System Commissioned in September, 2009. Water Recovery System (with Clariflocculator) to be commissioned in June, 2014	Bottom ash system with water impounded hopper and jet pumping (2 x 60 TPH) upto slurry sump. Fly ash vacuum conveying system (2 x 60 TPH) upto bag filter and surge hopper for dry collection, fly ash wet disposal system through wetting unit-collector tank (2 x 60 TPH). Pressure conveying system from surge hopper (1 x 120 TPH) to a remote silo (approximately 500 M distance), slurry pumping (620 m <sup>3</sup> /hr.), water and instrument air system along with complete electrical/C&I & civil/structural works on turnkey basis for the complete ash handling system.

SL. NO.	PLANT	OWNER	ORDER REF. & DATE	PROJECT STATUS	JOB DESCRIPTION
03	Barh Super Thermal Power Project, Stage-I (3 x 660 MW)	NTPC Limited, Noida	01/CS-9558-162-2-FC-NOA-4662 Dt.22.03.2006 & 01/CS-9558-162-2-SC-NOA-4663 Dt.22.03.2006	Revised Schedule of Commissioning :- Unit #1 – Dec., 2014 Unit #2 – July, 2015 Unit #3 – Dec., 2015	Bottom ash system with water impounded hopper (3-'V' configuration) and jet pumping (3 x 89 TPH/Unit) upto slurry sump. Fly ash vacuum conveying system (6 x 54.44 TPH/Unit) upto surge hopper for dry Collection, fly ash wet disposal system through wetting unit-collector tank. Pressure Conveying System from surge hoppers (3 x 108.88 TPH/Unit) to remote silos (approximately 750 M away), slurry pumping system (each stream 1390 m <sup>3</sup> /hr.) along with slurry disposal piping (500 NB MS, 5 x 10 km), water and instrument air systems along with associated electrical & civil works on turnkey basis for the complete Ash Handling System.
04	Korba Super Thermal Power Project, Stage-III (1 x 500 MW)	NTPC Limited, Noida	CS-2140-162-2-FC-NOA-4863 Dt.09.04.2007 & CS-2140-162-2-SC-NOA-4864 Dt.09.04.2007	Commissioning :- Wet System – Commissioned in November, 2010 Dry System – Commissioning : June, 2014	Bottom Ash Handling System with dry BA hopper, Scraper Conveyor (49.5 TPH), BA slurry pumping up to combined slurry sump.  Fly ash Vacuum Conveying System with mechanical exhauster (4 x 59.4 TPH) up to local surge hopper/wetting unit.  Pressure Conveying System (2 x 118.8 TPH) from surge hopper to remote silo using Screw Compressor.  Ash Slurry disposal system employing slurry pumps (943 cu.m/hr.) up to booster pump house and from booster pump house to dyke, 400 NB 9.52 thk. slurry piping (total 60 km).

SL. NO.	PLANT	OWNER	ORDER REF. & DATE	PROJECT STATUS	JOB DESCRIPTION
					Associated water pump and piping, blowers, IA compressors etc.  Complete Civil & Structural Work. Complete Electrical Work in Booster Pump House.
05	Indira Gandhi Super Thermal Power Project, Jhajjar (3 x 500 MW)	Aravali Power Company Private Limited, Noida	APCPL/HQ/CS/0330-162-2/FC/ASH/NOA/08/148 Dt.30.06.2008 & APCPL/HQ/CS/0330-162-2/SC/ASH/NOA/08/149 Dt.30.06.2008	Commissioning :- (Thru' HCSD) Unit #1 – Commissioned in October, 2010 Unit #2 – Commissioned in November, 2011 Unit #3 – Commissioned in March, 2013  Commissioning (Dry System) :- Unit #1 – Commissioned in November, 2013 Unit #2 – Commissioned in January, 2014 Unit #3 – Commissioning in July, 2014	Bottom ash system with water impounded hopper and jet pumping upto slurry sump. Bottom ash slurry pumping system along with slurry disposal piping (350 NB MS, 4 x 5.7 km). Fly ash vacuum conveying system (4 x 56.75 TPH/Unit) upto surge hopper for dry Collection, Pressure Conveying System from surge hoppers (2 x 113.5 TPH/Unit) to remote silos (approximately 1000 M away) or to HCSD silos. Fly ash wet disposal through High Concentration Slurry Disposal (HCSD) System along with HCSD Pumps (5 nos. PD Pumps) and HCSD piping (200 NB, Sch.-80, 5 x 3.6 km). Water and instrument air systems along with associated electrical & civil works on turnkey basis for the complete Ash Handling System.

SL. NO.	PLANT	OWNER	ORDER REF. & DATE	PROJECT STATUS	JOB DESCRIPTION
06	WBDCL - Santaldih Thermal Power Station, 1 x 250 MW, Unit # 6	The West Bengal Power Development Corporation Ltd., Kolkata Thru' BHEL/PS-ER, Kolkata	PSER:SCT: SND-M851: 08:LOI-S:1458 Dt.03.10.2008 & PSER:SCT: SND-M851: 08:LOI-E:1459 Dt.03.10.2008	Ash Handling System (Wet System) Commissioned in September, 2011  Dry System : Commissioned in December, 2013  Water Recovery System (with Clariflocculator) to be commissioned in July, 2014	Bottom ash with water impounded hopper and jet pumping (2 x 65 TPH) up to slurry sump. Fly ash vacuum conveying (3 x 60 TPH) to surge hopper with mechanical exhauster and pressure transportation from surge hopper to silo (2 x 90 TPH). Fly ash wet disposal from silo up to slurry sump. Slurry disposal system up to dyke by slurry pump (620 m <sup>3</sup> /hr.) along with slurry disposal piping (300 NB MS, 2 x 2.25 km). Water and instrument air systems along with associated electrical & civil works on turnkey basis for the complete Ash Handling System.
07	Barh Super Thermal Power Project, Stage-II (2 x 660 MW)	NTPC Limited, Noida	CS-9560-162-2-FC-NOA-5293 Dt.01.06.2009 & CS-9560-162-2-SC-NOA-5294 Dt.01.06.2009	Commissioning :- Unit #4 – June., 2014 Unit #5 – Dec., 2014	Bottom ash system with water impounded hopper (3-'V' configuration) and jet pumping (3 x 86.14 TPH/Unit) upto slurry sump. Fly ash vacuum conveying system (6 x 47.39 TPH/Unit) upto surge hopper for dry Collection, fly ash wet disposal system through wetting unit-collector tank. Pressure Conveying System from surge hoppers (3 x 94.77 TPH/Unit) to remote silos (approximately 750 M away), slurry pumping system (four streams) along with slurry disposal piping (500 NB MS, 4 x 10 km), water and instrument air systems along with associated electrical & civil works on turnkey basis for the complete Ash Handling System.

SL. NO.	PLANT	OWNER	ORDER REF. & DATE	PROJECT STATUS	JOB DESCRIPTION
08	Matrishri Usha Jayaswal Mega Power Project, Phase – I (2 x 270 MW)	Corporate Power Ltd. Thru' Abhijeet Infra Limited, Ranchi	AINL/2x270 MW Phase – I&II/AHP/424/ PO Dt.08.10.2010 & AINL/2x270 MW Phase – I&II/AHP/424/ WO Dt.08.10.2010	Commissioning :- December, 2014	Bottom ash hydraulic conveying with water impounded hopper and jet pumping (2 x 75 TPH streams per Unit) upto slurry sump. Fly ash pneumatic vacuum conveying system (3 x 60 TPH streams per Unit) either upto bag filter/ surge hopper for dry collection or to wetting unit-collector tank for wet disposal. Pneumatic positive pressure conveying system from surge hopper (2 x 90 TPH streams per Unit) to remote silo(s) (approximately 800 M away). Lean slurry disposal system to pond by slurry pumps (620 m <sup>3</sup> /hr) and 2 x 6.5 km 300 NB MS piping. Ash water recovery system from ash pond. High Concentration Slurry Disposal (HCSD) system for fly ash from storage silo to ash dyke (6.5 km pipe). Associated auxiliary systems such as, ash water, seal water, clear water and instrument air systems. Complete Electrics, C&I and structural works for the entire Ash Handling System.
09	Matrishri Usha Jayaswal Mega Power Project, Phase – II (2 x 270 MW)	Corporate Power Ltd. Thru' Abhijeet Infra Limited, Ranchi	AINL/2x270 MW Phase – I&II/AHP/424/ PO Dt.08.10.2010 & AINL/2x270 MW Phase – I&II/AHP/424/ WO Dt.08.10.2010	Commissioning :- July, 2015	Bottom ash hydraulic conveying with water impounded hopper and jet pumping (2 x 75 TPH streams per Unit) upto slurry sump. Fly ash pneumatic vacuum conveying system (3 x 60 TPH streams per Unit) either upto bag filter/ surge hopper for dry collection or to wetting unit-collector tank for wet disposal. Pneumatic positive pressure conveying system from surge hopper (2 x 90 TPH streams per Unit) to remote silo(s) (approximately 800 M away). Lean slurry disposal system to pond by slurry pumps (620

SL. NO.	PLANT	OWNER	ORDER REF. & DATE	PROJECT STATUS	JOB DESCRIPTION
					m <sup>3</sup> /hr) and 2 x 6.5 km 300 NB MS piping. Ash water recovery system from ash pond. High Concentration Slurry Disposal (HCSD) system for fly ash from storage silo to ash dyke (6.5 km pipe). Associated auxiliary systems such as, ash water, seal water, clear water and instrument air systems. Complete Electrics, C&I and structural works for the entire Ash Handling System.
10	KPCL – Bellary Thermal Power Station, Unit – 3 (1 x 700 MW)	Karnataka Power Corporation Ltd., Thru' BHEL/ISG, Bangalore	LOI No. : 77/11/0054/AK Dt.05.07.2011	Commissioning :- December, 2014	Bottom ash system with water impounded hopper (3-'V' configuration) and jet pumping (3 x 85 TPH) upto slurry sump. Fly ash vacuum conveying system (6 x 67 TPH) upto surge hopper for dry Collection, fly ash wet disposal system through wetting unit-collector tank. Pressure Conveying System from surge hoppers (3 x 134 TPH) to remote silos (approximately 1200 M away), slurry pumping system (two streams) along with slurry disposal piping (500 NB MS, 2 x 3.5 km), water and instrument air systems along with associated electrical works on turnkey basis for the complete Ash Handling System.
11	Nabinagar Super Thermal Power Project (3 x 660 MW)	Nabinagar Power Generating Company Private Limited, Patna	CS-0370-162C-2-FC-NOA-0015 Dt.22.03.2013 & CS-0370-162C-2-SC-NOA-0016 Dt.22.03.2013	Commissioning :- Unit #1 – July, 2016 Unit #2 – Jan., 2017 Unit #3 – July, 2017	Bottom ash system with water impounded hopper (3-'V' configuration) and jet pumping (3 x 78.2 TPH) upto slurry sump. Bottom ash slurry pumping system along with slurry disposal piping (450 NB MS, 4 x 10 km). Fly ash vacuum conveying system (6 x 58.48 TPH/Unit) upto surge hopper for dry Collection, Pressure Conveying System from surge hoppers (3 x 116.96 TPH/Unit) to

SL. NO.	PLANT	OWNER	ORDER REF. & DATE	PROJECT STATUS	JOB DESCRIPTION
					<p>remote silos (approximately 1000 M away) or to HCSD silos. Fly ash wet disposal through High Concentration Slurry Disposal (HCSD) System (131.58 TPH per stream) along with HCSD Pumps (8 nos. PD Pumps) and HCSD piping (175 NB, Sch.-80, 8 x 7.5 km). Water and instrument air systems along with associated electrical &amp; structural works on turnkey basis for the complete Ash Handling System.</p> <p>Complete Ash Water Re-circulation System from ash pond comprising re-circulation water pump (3 nos. 1025 cu.m/hr. capacity) &amp; 600 NB M.S. pipe (7 km).</p>
12	Sipat Super Thermal Power Project, Stage-I (3 x 660 MW), Unit #1 and #2	NTPC Limited, Noida	01/CS-9518-162E-2-FC-NOA-6061 Dt.07.01.2014 & 01/CS-9518-162E-2-SC-NOA-6062 Dt.07.01.2014	Commissioning :- July, 2015	Fly Ash Pneumatic Pressure Transportation System from existing buffer hoppers (3 x 96 TPH/Unit) to remote silos (approximately 1100 M away), ash water and instrument air systems along with associated electrics and electrical control system, civil & structural works on turnkey basis for the complete Dry Fly Ash Transportation System for unit #1 & unit #2.