



WESTERN COALFIELDS LIMITED

(A Miniratna Cat-I Government of India Undertaking)

(A Subsidiary of Coal India Limited)



An Overview 2014-15



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(A Subsidiary of Coal India Limited)

An Overview 2014-15

**Registered Office:
Coal Estate, Civil Lines,
Nagpur - 440 001 (MS)**



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Coal - the Black Diamond

Coal is the primary source of energy. Coal accounts for over 50% of India's commercial energy consumption and about 78% of domestic coal production is dedicated to power generation. The inventory of Coal in India are estimated to be around 306.596 Billion Tonnes (as on 1st April, 2015), which constitute about 0.8% of the Global Coal reserves, whereas it's production contribution is around 7%. India today is one of the major coal producers in the World and ranks at 3rd position after China and USA.

Coal deposits in India are mainly occurring in lower Gondwana formation of permian period and Eocene/ oligocene formation of tertiary period. About 99.5% of Indian coal belongs to Gondwana formation.

Major part of these reserves is bituminous coal, occurring in basins, lying east of 78°E Longitude and above 20°N Latitude, along prominent present day rivers. Coal deposits of tertiary period are best developed in North Eastern Region while Lignite deposits in Southern & Western part of the country.

The first published reference of Coal Mining in India dates back to 1774. However, by the beginning of the 20th Century, the national coal production reached to a level of around 6 Million Tonnes.

The industry got significant boost during the two great wars. With the advent of Independence, the need for larger and efficient coal production was stressed. This led to formation of National Coal Development Corporation Limited in 1956, which in turn stepped up production in States like Maharashtra, Madhya Pradesh and Orissa, where at that point of time, the mining conditions were not as favourable as in Bengal - Bihar belt.

Due to large scale development programme of Iron & Steel Industry during the Fourth & Fifth Five Year Plan periods, the question of conservation & scientific development of coal resources in the country, including coking coal, assumed greater importance.



Birth of Coal India Limited

The nationalization of the Coal Industry in India took place in two phases. The Coking Coal Mines were nationalized in May 1972, and the Non-coking Coal Mines in May 1973.

With this, all the mines in the country, except captive mines of two private companies, were placed under Public Sector. 1st November, 1975 represented a turning point for the nationalized coal industry, when a comprehensive re-organization scheme was launched. Coal India Limited was born as a holding company with Rs.750 Crores as its Authorized Capital, and Five Subsidiary Companies including Central Mine Planning & Design Institute under it.

The process of amalgamation of mines into bigger units started. The 925 taken-over Mines, together with 44 NCDC Mines were re-organized into 374 Mines.

The national coal production which stood at a level of 77.87 Million Tonnes during 1973-74, reached a level of 612.435 Million Tonnes by 2014-15.

Today, Coal India has eight Subsidiary Companies including CMPDI, and is one of the largest Corporate Employers of the world, employing about 3.47 Lakh people. CIL produced 494.23 Million Tonnes of coal during the year 2014-15.

Presently, about 92.9% of CIL's production comes from Opencast Mines.



WCL

An Introduction

Western Coalfields Limited (WCL) is one of the Eight Subsidiary Companies of Coal India Limited, contributing about 6.7% of the national coal production.

The company came into existence on 1st November, 1975, after re-organization of the Nationalized Coal Industry. At that juncture, the operations of WCL were spread over in the States of Maharashtra, Madhya Pradesh and Orissa, organized into 2 Divisions and 12 operational Areas.

By the year 1985-86, the number of mines in WCL had increased to 130 and the total production to 48.89 Million Tonnes from the then WCL.

Keeping in view the tremendous growth programme, the Company was bifurcated, with effect from January 1986, into South Eastern Coalfields Limited and the present Western Coalfields Limited (WCL).

The present WCL has mining operation spread over in the States of Maharashtra (in Nagpur, Chandrapur & Yeotmal Districts) and in Madhya Pradesh (in Betul and Chhindwara Districts).

WCL AT A GLANCE

Number of working mines: 01.04.2015

Opencast	:	41
Underground	:	41
Mixed (OC+UG)	:	00
Total	:	82

Coal Production Actual 2014-15 Actual 2013-14

Opencast	33.58	32.00
Underground	07.57	07.73
Total	41.15	39.73

O.B.R.(Mil.Cu.M.) 122.914 120.08

Productivity Actual 2014-15 Actual 2013-14

Opencast	5.72	5.14
Underground	1.13	1.07
Overall	3.26	2.96

Off-take (Mill.Tes) 41.25 39.95

Average Wagon Loading (BOXES/DAY) 944 921

Stock(as on 31st)MT 5.00 5.60

Manpower (as on) 1.4.2015 1.4.2014

Executives	2631	2693
Monthly Rated	9715	10203
Daily Rated	36374	38034
Piece Rated	860	1061
Badli/Casuals and	5	493
Company Trainee	486	
Total	50071	52484

Manpower Reduction 2413 2476



FINANCIAL PERFORMANCE 2014-15

The **turnover** of the company during the year **2014-15** was **Rs.9652.74 crores** against budgeted **Rs.9817.62** crores. The **net profit** for the year is **Rs.544.79 crores** against budgetted **profit** of **Rs.5.75** crores.

The total **sales realization** during **2014-15** was **Rs.9924.11 crores**. The total **outstanding dues** with customers has **increased** from **Rs.548.64** crores as on 01.04.2014 to **Rs.756.73 crores** as on **01.04.2015**.

The company has **paid Rs.195.00 crores** by way of **advance corporate taxes** to Central Government during the year **2014-15**. Besides, the company contributed to the **State/ Central exchequer** around **Rs.2135.11 crores** by way of **royalty** and **S.Tax & other levies** during the year **2014-15**.

The year-wise profit earned by WCL is given below:

(Rupees in Crores)

Year	Profit
2001-02	310.20
2002-03	472.53
2003-04	743.60
2004-05	935.30
2005-06	1446.96
2006-07	1054.44
2007-08	930.22
2008-09	516.12
2009-10	931.03
2010-11	1067.97
2011-12	440.50
2012-13	428.87
2013-14	325.86
2014-15	544.79
Budget (AAP) 2015-16	263.57



Coal Reserves

The Command Area of WCL has coal inventory of 14,883 Million Tonnes of coal, against All India coal inventory of 3,06,596* Million Tonnes (as on 01.04.2015). The distribution is as under:

(Million Tonnes)

State	Cok-ing	Non-Coking	Total
Maharashtra	-	11253	11253
Madhya Pradesh	666	2964	3630
TOTAL WCL	666	14217	14883
ALL INDIA	34403	272193	306596
WCL reserves as % of All India	1.95	5.22	4.85

* (1) As per GSI, in seams more than 0.9 M thick and upto a depth of 1200 M.

(2) This includes 1493 million tonnes of Tertiary coal.

With 4.85% of coal inventory WCL contributes about 8.32% towards CIL coal production and about 6.72% towards national coal production.

Mining Operations

The mining operations of WCL are organized into 10 Areas, 7 located in the State of Maharashtra and 3 in Madhya Pradesh.

WCL has 82 operating mines as on 01.04.2015.

The distribution of mines in the Areas is as follows:

Sl. No.	State/Area	UG	OC	Mi-xed	Total
MAHARASHTRA STATE:					
1	Chandrapur	7	4	-	11
2	Ballarpur	2	6	-	8
3	Majri	1	5	-	6
4	Wani	-	7	-	7
5	Wani North	2	5	-	7
6	Nagpur	9	4	-	13
7	Umrer	1	3	-	4
Sub Total		22	34	-	56
MADHYA PRADESH STATE:					
1	Pathakhera	6	-	-	6
2	Pench	8	6	-	14
3	Kanhan	5	1	-	6
Sub Total		19	7	-	26
TOTAL WCL		41	41	-	82



DETAILS OF COALFIELDS UNDER WCL COMMAND AREA

Coalfields	Approx. Area Sq.Kms.	Proved Reserves* (M.T.)	No.of Seams	Thickness in Metres	Depth in Metres
Wardha Valley	700	3756.78	One Comp.	15 - 24	40-350
Pench-Kanhan	400	1465.78	3 in West.	2 - 5	15-450
		(107.83)	5 in East.	0.2-4	15-450
Pathakhera	12	290.80	Three	0.4-4.5	40-300
Kamptee	90	1276.14	Five	0.5-10	30-300
Umrer	6	308.41	Three	3-19	25-150
Makardhokda	16				
Nand	5	602.06	Five	0.3-5.7	35-200
Bander	35				
Bokhara	3.5	10.00	Four	0.9 - 4.5	17 - 315
Mohpani	4	7.83	Three	0.3 - 8.56	20 - 300
Total		7717.80	5.86% of all India		

NB : FIGS.IN BRACKETS INDICATE MEDIUM/SEMI COKING RESERVES

- * :
- As assessed by GSI as on 01.04.2014
 - Reserves extracted since 1950 has not been deleted from the proved reserves given above



Location

(Figs. in Million Tonnes)

WCL is strategically located in the centre of India. Because of this strategic location, the Company is a major source of coal supplies to the industries located in Western India - in the State of Maharashtra, Goa, Madhya Pradesh, Gujarat and to Southern India - Andhra Pradesh, Tamil Nadu, Karnataka and Kerala. Some extent also to Northern India – Haryana and Uttar Pradesh. A large number of Power Houses located in Maharashtra, Madhya Pradesh, Gujarat, Karnataka, Uttar Pradesh and Haryana States are major consumers of its coal alongwith CPP, Cement, Steel, Chemical, Paper and Sponge Iron. Coal is also available through e-Auction both by Road and Rail.

Coal Production Trend

There has been a phenomenal growth in coal production of the Company from a level of 6.53 Million Tonnes in 1973-74 to 41.15 Million Tonnes in 2014-15.

Year	OC	UG	Total
1973-74	0.75	5.78	6.53
1979-80	1.84	7.76	9.60
1991-92	15.75	8.99	24.74
1996-97	21.36	9.86	31.22
2001-02	27.52	9.49	37.01
2002-03	28.43	9.39	37.82
2003-04	30.02	9.51	39.53
2004-05	31.76	9.65	41.41
2005-06	33.16	10.04	43.20
2006-07	33.30	9.91	43.21
2007-08	33.53	9.98	43.51
2008-09	34.59	10.11	44.70
2009-10	36.12	9.62	45.74
2010-11	34.95	8.70	43.65
2011-12	34.72	8.39	43.11
2012-13	34.09	8.20	42.29
2013-14	32.00	7.73	39.73
2014-15	33.58	7.57	41.15
PROGR. 2015-16	37.10	8.00	45.10



COALFIELD-WISE COAL PRODUCTION

(Figs. In Million Tonnes)

Coalfields/ States	73-74	86-87	91-92	96-97	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16 Target
Wardha Valley	1.23	8.70	14.54	19.23	27.79	28.90	29.32	30.00	30.45	28.72	27.09	28.26	29.42
Nagpur/ Umrer Cfs	1.27	3.60	4.34	5.63	8.61	8.76	9.30	6.93	6.29	7.26	7.09	7.09	8.70
Maharashtra	2.50	12.30	18.88	24.86	36.40	37.66	38.62	36.93	36.74	35.98	34.18	35.35	38.12
Pench- Kanhan	3.40	4.23	3.55	3.72	3.88	3.78	3.86	3.59	3.30	3.28	2.60	2.84	4.03
Pathakhera	0.63	2.81	2.31	2.65	3.23	3.26	3.26	3.13	3.07	3.03	2.95	2.96	2.95
Madhya Pradesh	4.03	7.04	5.86	6.37	7.11	7.04	7.12	6.72	6.37	6.31	5.55	5.80	6.98
WCL	6.53	19.34	24.74	31.23	43.51	44.70	45.74	43.65	43.11	42.29	39.73	41.15	45.10



Productivity:

The overall man productivity of the Company has increased from a level of 0.70 Tonnes to 3.26 Tonnes during the period 1973-74 to 2014-15. The trend is indicated below :

(Figures in Tonnes)

Year	OC	UG	Overall
1973-74	2.15	0.64	0.70
1979-80	3.48	0.65	0.74
1991-92	3.44	0.63	1.31
1996-97	4.06	0.71	1.63
2001-02	4.18	0.85	2.09
2002-03	4.03	0.91	2.19
2003-04	4.12	0.95	2.29
2004-05	4.21	1.00	2.41
2005-06	4.03	1.05	2.43
2006-07	4.07	1.09	2.50
2007-08	4.06	1.11	2.52
2008-09	3.99	1.14	2.55
2009-10	4.12	1.12	2.64
2010-11	4.13	1.09	2.65
2011-12	4.22	1.08	2.70
2012-13	5.03	1.10	2.97
2013-14	5.14	1.07	2.96
2014-15	5.72	1.13	3.26
PROGR: 2015-16	4.80	1.07	2.97



Technology Upgradation:

There has been concerted effort for introduction of new technology and technology up gradation not only in the sphere of exploration and exploitation but also in other spheres like Safety and Conservation, beneficiation etc.

The major areas for technology up gradation area -

Underground Mining;
Opencast Mining;

UNDERGROUND MINING:

Bord and Pillar Mechanization:

Side discharge Loaders (SDLs) and Load Haul Dumpers (LHDs) are predominantly used machinery in the Underground Mines, where ever conditions permitted to eliminate basket loading. Similarly tub system of conveying has been replaced by chain/belt conveyor and further, hand held drill machines being replaced by hydraulically operated drill machine & Universal Drill Machines (UDM) for multi directional drilling of face, side and roof.

Continuous Miner technology is under operation at Tandsi UG mine of WCL. Further, the said technology has been proposed to be introduced with minimum guaranteed production on partial hiring basis (paid on Rs/Tonne), at Tawa-II UG, Pathakhera Area, on operating mine.



Accordingly, the proposal along with estimated cost and customized bid document were approved by WCL Board in its 260th meeting held on 10th January, 2015. Global bid was floated on 26th March, 2015, with scheduled date of opening of bid on 9th June, 2015.

During the financial year 2015-16, it is envisaged to introduce the said technology in two operating mines viz. Tawa-I and Chhatarpur-I. Feasibility report for both the mines has been submitted by CMPDIL and necessary scheme is under preparation. After necessary approval, tendering action shall be initiated.

Introduction of Mass production Technology:

Two underground blocks namely Murpar and Borda Blocks were identified having capacity as 2 MTY, in the command area of WCL to be developed and operated as Turnkey Projects. Global Bids were invited and have been evaluated. The proposal of Borda Block was placed before WCL Board, which was referred to CIL for necessary directives.

Application of Man Riding System in Underground Mines:

In order to eliminate fatigue to the workman due to long and arduous travel in UG mines and to improve the efficiency, 9 Nos. of man riding systems are under operation in 8 underground mines.



In the financial year 2014-15, man riding system was commissioned in Adasa Mine, Nagpur Area.

Further, in future, man riding system is proposed to be deployed in Rajur and Naheriya, besides few more identified underground mines.

Application of Bottom Ash as stowing material:

Directives imposed by State Government restricted availability of sufficient quantity of sand for stowing material in underground mines. In order to address environmental issues and also to protect the important surface features over the mining area, pilot study for using bottom ash as stowing material has been undertaken in Sarni Mine, Pathakhera Area under guidance of CIMFR. After successful completion of pilot study, it is envisaged to introduce bottom ash stowing in Rajur Mine, Wani North Area and other underground mines, depending upon techno-economic feasibility and availability of bottom ash.



OPENCAST MINING:

All Opencast mines of WCL are fully mechanized. The population of HEMM as on 31.03.2014 is given below:

Equipments	Population of HEMM as on 31 st March	
	2015	2014
Dragline	3	3
Shovel	129	138
Dumper	449	494
Dozer	150	158
Drill	98	91
Total	829	884

MANPOWER:

WCL has made concerted progress in rationalizing its manpower. Despite increase in production from a level of 24.74 Million Tonnes to 41.147 Million Tonnes during the period 1991-92 to 2014-15, WCL is able to gradually reduce its overall manpower and increase production and productivity. The yearwise manpower is given below:

As on 31st March	Manpower
1992	85742
1997	84805
2002	75005
2003	72501
2004	70515
2005	68938
2006	67378
2007	65599
2008	64160
2009	62492
2010	60870
2011	59043
2012	56989
2013	54960
2014	52484
2015	50071



Coal Despatches: (Coal & Coal Products)

Location of the Mines of Western Coalfields Limited is very strategic so far as the needs of the industrial sectors of Western, Central and Southern India are concerned. There has been a continuous growth in supply to consumers from a level of 6.18 Million Tonnes in 1973-74 to a level of 41.35 Million Tonnes in 2014-15.

The Sector-wise off-take (raw coal) from WCL are given below :

(Figures in Million Tonnes)

Sector	Actual			Prog. 15-16
	73-74	13-14	14-15	
Power	3.40	28.91	30.95	35.355
Cement	0.43	1.95	1.86	1.655
Steel	0.08	0.23	0.15	0.280
Railway	0.12	-	-	-
Others	2.15	8.86	8.39	7.810
Total	6.18	39.95	41.35	45.10

Mode-wise off-take from (raw coal) WCL are furnished below :

(Figures in Million Tonnes)

Mode	Actual			Prog. 15-16
	73-74	13-14	14-15	
Rail	4.68	22.17	22.72	25.60
Road	1.50	13.80	14.78	14.80
MGR	-	0.58	0.40	1.10
Other	-	3.40	3.35	3.60
Total	6.18	39.95	41.25	45.10



Consumer Satisfaction:

WCL has taken the following measures towards ensuring Consumer Satisfaction during 2014-15:

- Continued determination of GCV by auto bomb calorimeters at loading points was carried out thereby ensuring that the GCV of coal dispatched was accurate, paving the way for settlement of coal bills in respect of the actual quality delivered to the power sector.
- Coal Sampling and analysis of coal was carried out through the CIL-appointed independent third party agencies, selected after an elaborate open tendering process.
- Entire quantity of coal dispatched to the Power Sector was covered under the agreed sampling.
- Specific requirement of the Power Sector regarding sized dispatches was met by dispatching coal after crushing to the agreed size.
- So as to ensure dispatch of coal of agreed quality and size, following measures have been put in place at the field level:
 - Proper OB/Coal benching
 - Quenching of fire at Coal Face
 - Selective blasting
 - Selective Mining
 - Intensive segregation of stone/shale at Pit-head stocks before dispatch

- Quenching of fire at Pit head stocks
- Separate stacking of fresh coal
- Sizing of coal to the agreed size
- Transportation of coal of agreed size and quality to the railway sidings
- Segregation of stones/shale from siding stocks
- Selective loading
- Segregation of stones/ shale from top of loaded wagons
- Steps were afoot for commencement of consumer-appointed independent third party sampling at all loading points.

Three-member Area Quality Control **Teams headed by General Managers (Op)** with Nodal Officer (QC) and Sr. Technical Inspector as the other two members have been constituted for round-the-clock monitoring of coal quality-related matters at the field level.

- Two flying squads with four members each from Hqrs Q.C. Department have been constituted to pay surprise visits to problem Areas on receipt of complaints regarding any coal quality-related issue. The flying squads have been empowered to issue spot memos to the officials, if found to be negligent on ensuring dispatch of coal as per grades/quality declared.



- In addition to above, special Quality Drives were also undertaken by the officials/ staff of Hqrs Q.C. Department at regular intervals to ascertain and monitor the quality of coal at different mines/ sidings.
- WCL is the only subsidiary in the entire CIL to have one NABL-accredited laboratory, functioning under the full administrative control of GM(QC). Action is underway to get NABL accreditation to one more laboratory.
- All quality complaints were redressed within the stipulated time.
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- All quality complaints were redressed within the stipulated time.
- Quality Fortnight 2014-15 was organized throughout WCL from Oct 21, 2014 to Nov 04, 2014 at the field level, which was a resounding success. During the fortnight-long event, many competitions were held in different categories to ascertain the best Area, best Colliery Manger, best OC/ UG Mine, best laboratory, best rail/road weighbridge, best CHP, and best technical inspector from quality consciousness point of view.
- WCL started conducting exclusive training classes aimed at imparting required training and providing relevant information on coal quality and allied matters to executives/ staff/workers associated with coal production, weightment and dispatch. The inaugural classes were conducted for two days from 29th Sept 2014 to 30th Sept 2014. The classes are being planned at quarterly frequency. Apart from the exclusive classes, topics on coal quality were also included in the HRD Department's regular course modules. WCL is the first subsidiary in CIL to have introduced exclusive classes on coal quality.
- In WCL, total 122 road weigh bridges and 26 rail weighbridges are available. In addition to above, another 11 road weighbridges are under installation, with a view to ensure further system improvement.



Safety:

Safety of men and machines has been given the highest priority in WCL.

Monthly safety Committee meetings is conducted in all mines. Tripartite Safety Committee meetings at Area and Subsidiary levels are held regularly to review the safety performance of the mines. Safety drives on different subjects are held in all mines periodically. Annual safety Fortnight is also organized once every year.

Steel roof bolting is being done in all the mines and thrust is given to replace the remaining timber supports by steel supports wherever possible. Hydraulic roof drilling and universal Drilling machines (UDMs) have been introduced in most of the underground districts and the same will be provided in all the underground districts of WCL in a phased manner.

WCL has taken up in-house determination of Rock mass rating (RMR) and all underground mines draw their roof support plan as per the RMR value of the mine / seam.

In order to arrest accidents, most of which occur due to negligence and lack of awareness amongst workmen, the following additional steps have been taken:

- Periodical safety awareness drive in all mines.
- Issue of safety circulars from time to time.
- Safety talks at the pit top in the beginning of shifts.

- Periodical workshops / seminars / trainings.
- Circulation and implementation of "Code of Safe Practice" for all mining operations.
- Regular inspection of mines.
- Risk assessment and Safety Management Plan.

As a result of these measures, WCL has been able to achieve significant reduction of accident rates.

The fatality rate has been reduced from 3.71 per MT output in 1973 to 0.24 per MT output by 2014. The serious injury rate has also reduced from a level of 48.74 per MT output to 0.92 per MT during 2014.

Year	Rate Per M.Tonne Output	
	Fatality	Serious Injuries
1973	3.71	48.74
2014	0.24	0.92

Similarly, rate per three lakh manshifts for fatality has reduced from 0.81 to 0.24 during 1973 to 2014 and rate per three lakh manshifts for serious injury has reduced from 12.41 to 0.91 during 1973 to 2014.

Year	Rate Per Three Lakh Manshift	
	Fatality	Serious Injuries
1973	0.81	12.41
2014	0.24	0.91



PROJECT OVERVIEW

Western Coalfields Limited has made consistent progress since nationalization. Production has increased from 6.53 million tonnes in 1973-74 to 41.147 million tonnes in 2014-15 registering tremendous growth.

Due to adverse geo-mining conditions and high stripping ratio of coal deposits, the life of OC mines are quite short and projects have less capacity. There is two mega project which is ongoing project, namely Penganga OC & Dinesh OC is having a capacity of 4.00 Mty.

In view of above, identifying new projects and opening of the same is continuous process at WCL to maintain the steady growth.

At WCL, 10 mines were existing prior to nationalization and were taken over. A total of 151 projects have been sanctioned since nationalization, with ultimate aggregate production capacity of 118.66 million tonnes/ annum and aggregate sanctioned capital of Rs.8987.266 crore. At present, there are 33 ongoing projects with a capacity of 36.165 Million Te/annum with a total sanctioned capital of 2775.557 Crores. Out of this 22 projects have contributed 17.243 Mtes. coal production during the year 2014-15 and rest are under implementation.



ENVIRONMENT MANAGEMENT

OBJECTIVES

WCL as a corporate citizen realizes its responsibility not only for meeting the increasing demand of coal for generation of electricity but also for the protection and improvement of environment in and around its mining areas leading to sustainable development.

The Environment protection and improvement aspects are integrated at mine planning and design stage and practiced throughout operational life of the mines till successful closure.

ENVIRONMENTAL CONTROL AND IMPROVEMENT MEASURES UNDER TAKEN IN THE PROJECTS OF WCL

A) AIR QUALITY MANAGEMENT

In coalfields, the air pollution is caused mainly due to dust.

The dust is controlled at source by installation of fixed sprinklers at CHPs, coal stock yards, weighbridges and along transportation roads. In all the major CHPs, fixed sprinklers have been provided at the transfer points and bunkers.

The mist type water spraying system installed along the conveyor belts in coal handling plants has proved to be effective in water conservation and reduction of dust due to sheet formation besides increasing the longevity of structures. The sides of CHPs are also covered by side cladding by GI Sheets. In addition, effective dust suppression has been achieved through water sprinkling by mobile water tankers. Further effective plantation in the mine lease area also arrest the propagation and dispersion of dust significantly.

The quality of ambient air in and around the mine is monitored every fortnight as per Environment (Protection) Amendment Rule, September, 2000.

B) WATER QUALITY MANAGEMENT

The accumulated strata seepage water after initial sedimentation in the mine sump is pumped out on surface and fed into surface sedimentation pond/ settling tank which provides for the second stage settlement of suspended particles. The quality of water is monitored every fortnight as per Environment (Protection) Amendment Rule, September, 2000.



The effluent from workshops in opencast mines is treated in Workshop Effluent Treatment Plants (WETPs) and Domestic Effluent Treatment Plants (DETPs) have been constructed in combined townships for treatment of domestic effluent. The quality of effluent water is also monitored every fortnight as per Environment (Protection) Amendment Rule, September, 2000.

C) NOISE QUALITY MANAGEMENT

The noise level in and around the mine is controlled by adopting effective noise attenuation measures at source itself. This is done by proper designing and reducing the vibration amplitude. Further, the workmen exposed to high noise levels are provided with protective equipments viz. ear plugs/ ear muffs.

The quality of ambient noise in and around the mine is monitored every fortnight as per Environment(Protection) Amendment Rule, September, 2000.

D) LAND RECLAMATION

In opencast mines, external overburden dumps are taken up for plantation after the same become dead/ in active. Backfilling of decoaled void is taken up based on the geo – mining condition and potentiality of future deepening. In addition, the vacant places on plain land within the mine area are also taken up for plantation.



Objective of the land reclamation monitoring is to assess the area of backfilled, plantation, OB dumps, social forestry, active mining area, settlements and water bodies, distribution of wasteland, agricultural land and forest land in the leasehold area of the project. This is an important step taken up for assessing the progressive status of degraded land reclamation and for taking up remedial measures, if any, required for environmental protection.

Ten (10) Opencast projects of WCL producing more than 5 million cubic m. (Coal + OB together) have been taken up for land reclamation monitoring based on the *RESOURCESAT-1* satellite data using ERDAS Imaging digital image processing s/w on GIS platform **regularly on annual basis** to assess the progressive status of land reclamation in the said opencast mines. The report of this study has also been uploaded in the website of WCL in public domain.

STATUTORY COMPLIANCES

A) ENVIRONMENTAL CLEARANCE

Prior Environmental Clearance from Ministry of Environment & Forests (MOEF), Government of India is mandatory before opening any new project. Similarly for existing mines prior environmental clearance is also mandatory before expansion either of the production capacity and/or land



area. During 2012-13, a total of 5(five) nos. of Environmental Clearances have been obtained for WCL mines/projects covering both the new as well as expansion mines/ projects.

B) ENVIRONMENTAL MONITORING

Environmental Monitoring on fortnightly basis w.r.t. ambient air, water and noise quality for all the working mines/projects is carried out as per the Environment (Protection) Amendment Rules, 2000 (Extra- ordinary Notification in the Gazette of India on 25th September, 2000 – Standard for Coal Mines) through Central Mine Planning & Design Institute Limited(CMPDIL).

The Environmental Monitoring reports on quarterly basis are submitted to respective State Pollution Control Boards as well as to the Ministry of Environment & Forests (MOEF). The monitoring results as received from CMPDI on quarterly basis are up – loaded on the Company's web- site.

C) IMPLEMENTATION OF EMPs APPROVED BY MOEF

Compliance Report on implementation of MOEF stipulations as per the Environmental Clearance of the respective mine in the form of Six – monthly report is submitted to MOEF, IA Division, New – Delhi and Regional Office, Bhopal.



D) ENVIRONMENTAL STATEMENT

The statutory Environmental Statements for all the operating mines for the year 2012 -13 have been prepared and submitted to respective State Pollution Control Board in the month of September, 2013.

PLANTATION IN WCL

The plantation in WCL is one of the major activities undertaken for control of air and noise pollution and with the objective of reclamation of degraded land. Plantation/ Afforestation works and its maintenance are done in WCL by expert forest agencies namely, Forest Development Corporation of Maharashtra Ltd. (FDCM) and Madhya Pradesh Rajya Van Vikas Nigam Ltd. (MPRVVN). The plantation is of the mixed varieties instead of mono culture. The various varieties of tree saplings with due emphasis on bio – diversity and to preserve the native species are planted. The plantation in WCL includes timber yielding varieties of trees with a long life such as Teak, Shivan, Shisoo, Shrius etc. Medicinal plants like Neem, Awla, Kher, Arjun etc. Fruit yielding varieties like Jamun, Bher, Amrut, Mango etc. So far, 182.68 lakh trees have been planted in WCL in its area of operation since Nationalization upto 2014-15.



TECHNICAL & R&D STUDIES

Environment related technical and R&D studies are taken up in WCL on regular basis not only to find out the ways for improving the environment but also to meet the future environmental challenges.

A list of some of the important and completed studies till date is given below:

- ✓ Assessment of assimilated capacity and source apportionment analysis of air pollutants in ambient air in Wardha Valley Coalfields through KITS Ramtek – Completed.
- ✓ Study of quantum of particulate due to coal mines and allied activities and its effect on plants through NEERI, Nagpur – Completed.
- ✓ Pilot health survey in selected five villages of Chandrapur district adjoining WCL coal mines through GOVT Medical College Nagpur and Bhartiya Adim Jati Sevak Sangh, Nagpur – Completed.
- ✓ Study of fly ash as underground stowing material at Durgapur Rayatwari Colliery in collaboration with Fly Ash Utilization Programme, Govt. of India, CMFRI Dhanbad and MAHAGENCO – Completed.
- ✓ Development of technology for conservation of backfilled areas in Ballarpur OC for agriculture through Institute of Science, Nagpur – Completed.
- ✓ Technical study for old and active dumps of OC mines through IIT, Kharagpur – Completed.
- ✓ Effect of coal dust exposure on the residents in the vicinity of working mines of Chandrapur, Ballarpur, Wani and Majri Areas through District Health Officer, Zilla Parishad Chandrapur – Completed.
- ✓ Development of suitable biological waste water treatment technology through constructed wet land for treatment of acidic mine discharge at Maori Mine of Kanhan Area through CMPDIL (HQ), Ranchi – Completed.



ENVIRONMENTAL AWARENESS (2014-15)

ENVIRONMENT WEEK

Environment Week was observed at all the Projects, Areas and at WCL(HQ), Nagpur during June 1 to 7, 2014.

THE WORLD ENVIRONMENT DAY

The World Environment Day was observed on 5th June, 2014 at HQ, Area levels and Project levels.

A brief of activities undertaken during the week – long celebration were as follows:-

- i) Pledge on Environment Protection as per “UN- Slogan” taken by all employees both at Corporate (HQ) and at all areas.
- ii) Organizing talk on
Environment by Outside Experts
- iii) Plantation & distribution of plants

ENVIRONMENTAL AWARDS

WCL is recipient of the following coveted awards for its constructive work in environment protection in mining areas in recent past:

Environment Awards received by WCL

Awards	Year	Instituted/ Presented by
Golden Peacock (Special Commendation)	2012	Institute of Directors, New Delhi
Golden Peachck Environment Management Award	2013	Institute of Directors, New Delhi



PERFORMANCE AT A GLANCE 2014-15 (APRIL - MARCH)

Sl. No.	Items		2014-15		2013-14
			Target	Actual	Actual
1.0	Overall Production	(MT)	44.00	41.15	39.73
1.1	Underground Production	(MT)	7.90	7.57	7.73
1.2	Opencast Production	(MT)	36.10	33.58	32.00
2.1	Washed Coal Production	(LT)	1.080	0.727	1.20
2.2	Washed Coal Despatch	(LT)	1.080	0.747	1.18
3.0	O.B.Removal	(MM3)	130.00	122.914	120.08
4.0	Overall Productivity	(TES)	2.92	3.26	2.96
4.1	U.G. Productivity	(TES)	1.07	1.13	1.07
4.2	O.C. Productivity	(TES)	4.70	5.72	5.14
5.0	Off-take	(MT)	45.00	41.25	39.95
6.0	Wagon Loading	(BOXES /DAY)	928	944	921



HIGHLIGHTS OF PERFORMANCE IN BRIEF 2014-15

01. COAL PRODUCTION:

WCL has produced 41.147 Million Tonnes during 2014-15 against the target of 44.000 Million Tonnes and 39.729 Million Tonnes produced during 2013-14. It records :

- An achievement of 93.5% of the target.
- A growth of 3.6% over previous year.

02. OPENCAST PRODUCTION:

WCL produced 33.581 Million Tonnes during 2014-15 against the target of 36.100 Million Tonnes and 31.900 Million Tonnes during the year 2013-14. It records :

- An achievement of 93% of the target.
- A growth of 4.9% over previous year.

03. UNDERGROUND PRODUCTION

WCL produced 7.566 Million Tonnes during 2014-15 against the target of 7.900 Million Tonnes and 7.730 Million Tonnes produced during 2013-14.

- An achievement of 95.8% of the target.
- A growth of (-) 2.1% over previous year.

04. WASHED COAL PRODUCTION:

Washed coal production during the year 2014-15 was 0.727 Lakh Tonnes against the target of 1.080 Lakh Tonnes and 1.200 Lakh Tonnes achieved during 2013-14.

05. WASHED COAL SUPPLY TO STEEL PLANT:

Washed coal supply to Steel Plant during the year 2014-15 was 0.747 Lakh Tonnes against the target of 1.080 Lakh Tonnes and 1.180 Lakh Tonnes achieved during 2013-14.



06. OVERBURDEN REMOVAL:

Overburden Removed was 122.914 Million Cubic Metres during 2014-15 against the target of 130.000 M.Cu.M. and 120.076 M.Cu.M. removed during the year 2013-14. It records:

- An achievement of 94.5% of the target.
- A growth of 2.4% over previous year.

07. OFF-TAKE:

Off-take was 41.247 Million Tonnes during 2014-15 against the target of 45.000 Million Tonnes and 39.945 Million Tonnes during the year 2013-14. It records :

- An achievement of 91.7% of the target.
- A growth of 3.3% over previous year.

8. WAGON LOADING:

Wagon loading by the Company during 2014-15 was 944 Boxes per day against the target of 928 boxes per day and previous year's actual of 921 boxes per day.

09. OVERALL PRODUCTIVITY:

Overall productivity during the year 2014-15 as 3.26 Tonnes against the target of 2.92 Tonnes and 2.96 Tonnes achieved during 2013-14. It records :

- An achievement of 111.6% of the target.
- A growth of 10.1% over previous year.

10. UG PRODUCTIVITY:

The Company has achieved UG productivity of 1.13 tonne during 2014-15 against the target of 1.07 tonne and 1.07 tonne achieved during 2013-14. It records :

- An achievement of 105.6% of the target.
- A growth of 5.6% over previous year.

11. OC PRODUCTIVITY:

The Company has achieved OC productivity of 5.72 tonnes during 2014-15 against the target of 4.70 tonnes and 5.14 tonnes achieved during 2013-14. It records :

- An achievement of 121.7% of the target.
- A growth of 11.3% over previous year.



PROGRAMME FOR 2015-16 AT A GLANCE

SL. NO.	ITEMS	UNIT	ACTUAL 2014-15	TARGET 2015-16
1.0	Overall Production	(MT)	41.15	45.10
1.1	Underground Production	(MT)	7.57	8.00
1.2	Opencast Production	(MT)	33.58	37.10
2.1	Washed Coal Production	(LT)	0.727	1.37
2.2	Washed Coal Despatch	(LT)	0.747	1.37
3.0	Overburden Removal	(M.CU.M)	122.914	160.00
4.0	Overall Productivity	(TONNE)	3.26	2.97
4.1	U.G. Productivity	(TONNE)	1.13	1.07
4.2	O.C. Productivity	(TONNE)	5.72	4.80
5.0	Off-take	(MT)	41.247	45.10
6.0	Wagon Loading	(BOXES/DAY)	944	1056 (17.9 Rakes Per Day)



PLANNING

Group-wise production program and achievement during the year 2014-15 and target for the year 2015-16 are furnished below:

Particulars	2014-15		2015-16
	Target	Actual	Target (AAP)
1 Existing / Completed Projects	24.03	23.903	22.16
2 Ongoing/ Future Projects	19.97	17.243	22.94
TOTAL	44.00	41.147	45.10

DRILLING & EXPLORATION :

During the fiscal 2014-15, 111014.50 meters of drilling which includes 75867.765 mtrs in CIL Blocks and 35146.85 mtrs in Captive Blocks was carried out by CMPDIL in WCL command area. 314.797 Mt reserves have been established in CIL Blocks (Proved 304.914 Mt) and 90.928 Mt reserves have been established in Non CIL Blocks

The target for drilling in 2015-16 in WCL command area is 154000 meters (Departmental as well as outsourcing in CIL and captive blocks).

REPORT FORMULATION:

Geological Reports:

During the year 2014-15 the following Geological Reports were prepared:

- GR of Gouri Central, Wardha Valley Coalfield.
- GR for Bansuli, Bander Coalfield.
- GR for Chimri/Bababehra/Vishnupur, Patherkhera Coalfield (Non-CIL).
- GR for PR Dhankasa OC, Pench Coalfield.
- GR for PR of Silori OC, Kamptee Coalfield.
- GR for PR of Bhandak West OC, Wardha Valley C.F.(Captive Block).

The following GR/ Interim GR are scheduled to be prepared during 2015-16:

- Saoner- II & III, Kamptee coalfield
- Konda Hardola, Wardha valley Coalfield.
- Rajur- Manikgarh, Wardha valley Coalfield.
- Bahmni- Palasgaon, Wardha Valley Coalfield.

The following Geological Reports are scheduled to be prepared during 2015-16 by outsourcing agency:

- Sangam. Kamptee Coalfield
- Silewara Kamptee Coalfield
- Ambara-SukriPench-Kanhan C'field



Mining Project Reports:

During 2014-15, 7 Mining Project Reports were formulated:

Sl. No.	Name of Project	Capacity (Mty.)	Capital (Rs Crores)
1	Recast PR of Tawa –III UG	0.48	135.1735
2	Recast of Jamunia UG	0.84	198.767
3	PR of Shaktigarh UG	1.70	842.1132
4	RPR of Dinesh OC	4.00	611.1605
5	RPR of Penganga OC	4.00	441.8209
6	PR of Silori OC	2.00	931.75
7	PR of Adasa UG to OC	1.5	392.86

PLANNING PREPAREDNESS

At present there are 33 ongoing projects with a capacity of 36.165 Million Te/annum with a total sanctioned capital of 2775.557 Crores. Out of this, 22 projects have contributed 17.243 Mte coal production during the year 2014-15 and rest are under implementation.

OVERCOMING THE FINANCIAL CHALLENGES:

The financial challenges faced by WCL is the viability of projects in terms of desired selling price to yield 12% IRR as many of the ongoing / future / replacement projects were falling in the ambit of cost plus after revision of land rates declared by Government of Maharashtra, new R&R Policy, 2012 and other cost in parameters.

WCL has taken steps in bringing revision of old CMPDIL norms for formulation of the Project Report, capacity enhancement in some of the projects wherever possible, amalgamation of adjacent projects etc., After taking these steps many Projects of WCL namely Makhardhokra I OC, Penganga OC, Bhanegaon OC, Gokul OC & Dinesh OC came out of the ambit of cost plus and viable on notified price.



LONG TERM PLANNING:

WCL has planned to open 24 New/ Replacement projects with total capacity of 49.87 MTY in the state of Maharashtra & Madhya Pradesh during the FY 2015-16 & 2016-17 to create a production capacity of 60 MT as a part of 1 BT production programme of CIL by 2019-20. The details of projects are as under:-

Sl. No.	Name of Project	Area	Capacity (Mty)	Revised Commissioning Status
2015-16			23.51	
1	New Majri Sector IA & II A OC	Majri	1.20	Commissioned
2	Gokul OC	Umrer	1.5	Commissioned
3	New Majri UG to OC	Majri	0.8	Commissioned
4	Padmapur Deep OC	Chandrapur	2.50	Commissioned
5	Jamunia UG	Pench	0.84	Commissioned
6	Dinesh OC	Umrer	4.00	October 2015
7	Amalgamated Yekona-I & II OC	Majri	2.75	October 2015
8	Kamptee Deep OC	Nagpur	1.50	November 2015
9	Amalgamated Pauni-II & III OC	Ballarpur	3.25	December 2015
10	Singhori OC	Nagpur	0.85	January 2016
11	Mungoli Nirguda Deep OC	Wani	4.00	February 2016
12	Sharda UG	Kanhan	0.32	March 2016
2016-17			26.36	
1	Umrer Expansion (Amb River Diversion) OC	Umrer	2.00	April 2016
2	Dhuptala Extn (Sasti UG to OC) OC	Ballarpur	1.70	May 2016
3	Gauri Central OC	Ballarpur	5.00	June 2016
4	Hindustan Lalpeth Expn. OC	Chandrapur	1.00	September 2016
5	Adasa UG to OC	Nagpur	1.50	September 2016
6	Silori OC	Nagpur	1.00	October 2016
7	Saoner UG to OC	Nagpur	1.50	October 2016

Sl. No.	Name of Project	Area	Capacity (Mty)	Revised Commissioning Status
8	Konda Hardola I&II OC	Majri	8.00	November 2016
9	Bhakra UG	Kanhan	0.27	December 2016
10	Niljai Expansion (Deep) OC	Wani	3.00	January 2017
11	Tawa -III UG	Pathakhera	1.00	February 2017
12	Waghoda UG	Nagpur	0.39	March 2017

PROJECTS / SCHEMES APPROVAL:

Approval of Project Reports:

During the year 2014-15, following projects were approved by WCL/ CIL Board:

Sl. No.	Project	Date of approval	Sanctioned capacity (Mtpa)	Sanctioned capital (Rs. Crores)
1	Penganga OC	27.09.2014	4.00	441.82
2	Makhardhokhda I OC	27.09.2014	2.00	266.23
3	Gokul OC	29.11.2014	1.5	267.67
4	Bhanegaon OC	03.02.2015	1.00	187.94
5	Junnad Ext. OCP	03.02.2015	0.6	89.44
6	New Majri Sector IA & Sector II A OC	03.02.2015	1.2	85.5
7	Dinesh OC*	08.11.2014	4.00	611.16

* Approved by CIL Board

Commissioning of Projects:

Sl. No.	Subsidiary	Name of the projects	Type	Sanctioned Capacity (Mty)	Sanctioned Capital (Rs. Crores)
1	WCL	Makhardhokhda-I	OC	2.00	266.3
2	WCL	Bhanegaon	OC	1.00	187.94
3	WCL	Penganga	OC	3.00	441.82



LONGWALL/ MASS PRODUCTION TECHNOLOGY

1. Continuous miner technology being operated in Tandsi UG has completed its 5 APP and is under consideration for major overhaul. Further, the technology is being envisaged to be introduced in Tawa-II Expn. UG. Global Tendering has been done and Part-I is under evaluation
2. Two coal blocks namely Murpar Expn. and Borda have been identified for Development as High Capacity UG mines. Global Tendering has been done for both the blocks. In case of Borda Block, Part-II has been evaluated and is under competent approval and for Murpar Block the same is under evaluation.

NANDAN WASHERY

Nandan Washery at Kanhan Area of Western Coalfields Limited was set up with a view to wash raw medium coking coal produced from the Nandan Group of Mines i.e., Nandan Damua and Rakhikol Collieries of Kanhan Area. It was commissioned on turn key basis in the year 1984.

Raw Coal feed Capacity : 1.2 M.Tonnes

Source of raw coal : Tandsi Mine
Kanhan Area

Raw coal feed ash : 30% to 35%

Clean coal ash : 19.0(+)/(-)0.5

Clean coal despatch : Bhilai Steel Plant

Middling despatch : Sarni Power Plant



WELFARE ACTIVITIES

WELFARE BOARD:

A Welfare Board was set up in Western Coalfields Limited in 1987, the first of its kind in Coal Industry. The Welfare Board consists of 5 (Five) representatives of Management and 5 (Five) Workers representatives, one each from the Central Trade Unions viz. INTUC, BMS, AITUC, CITU & HMS. Director (Personnel), WCL is Chairman and General Manager (Welfare) is Secretary of Welfare Board.

WELFARE AMENITIES:

1. HOUSING:

Period	Houses available	Permanent manpower entitled for housing	%age satisfaction
At the time of Nationalisation	4390 (Standard) 9120 (Non-Std)	39794	11.3
As on 1.4.2013	42527(Std) 10086(NS)	54960	77.37
As on 1.4.2014	42527(Std) 10086(NS)	52484	81.02
As on 1.4.2015	42527(Std) 10086(NS)	50071	84.93

Std - Standard : NS - Non-standard

2. WATER SUPPLY:

Period	Total Population Coverage	Generation capacity MGD
At the time of Nationalization	45695	1.50
As on 1.4.2013	323855	18.68
As on 1.4.2014	323855	18.68
As on 1.4.2015	323855	18.68

3. EDUCATIONAL FACILITIES

Sl. No.	Particulars	At the time of Nationalization	As on 01.04.2015
1	Primary Schools	30	-
2	Middle Schools	18	-
3	Secnd. Schools	15	-
4	Other Schools	-	15
5	Central Schools	-	4+1DAV
6	School Buses	5	134 (Big +Mini)



4. MEDICAL FACILITIES:

	At the time of Nationalisation	As on 1.4.2015
Hospital	4	11
Beds	159	710
Dispensaries	19	49
Ambulances	9	103
Doctors	18	152
Nursing Staff /other employee	120	186
Bed Ratio	1:250	1:70

5. BANKING FACILITIES:

As on 01.04.2015

No.of Bank Branches : 113 Branches

No.of employees : 100 %

Paid through bank

6. CO-OPERATIVES/ SOCIETIES:

As on 01.04.2015

Co-operative Stores : 24

Co-operative Societies : 45

7. RECREATIONAL FACILITIES:

As on 01.04.2015

No.of Play Grounds : 31

No.of Stadiums : 13

No.of Children Parks : 48

No.of Clubs for employees : 30

No.of Community Halls : 38

No.of Libraries : 16

No.of Gymnasiums : 27

Swimming Pools : 01



CORPORATE SOCIAL RESPONSIBILITY (CSR)

The concept of Corporate Social Responsibility (CSR) has gained prominence from all avenues. Even much before the issue of CSR became global, WCL was fulfilling the aspirations of the society through well defined Community Development Policy within a periphery of 8 kms of the project sites, which has also resulted into a harmonious relationship between WCL and the peripheral communities. Coal India has adopted CSR as a strategic tool for sustainable growth. CSR means not only investment of funds for social activities but also integration of business processes with social processes.

In WCL, the CSR Policy of CIL has been implemented from the year 2010-11. As per the revised CSR Policy of CIL, the fund for the CSR should be allocated based on 2% of the average net profit of the Company for the three immediate preceding financial years or Rs.2.00 per tonne of coal production whichever is higher for its implementation within a radius of 25 kms and under special circumstances beyond 25 kms too from the unit/ project/ headquarters. The Action Plan is prepared in advance which includes the scope of work under education, water supply, health care, environment, social empowerment, solar lights, sports and culture, infrastructure support, etc. A CSR Standing Committee has been constituted at Headquarters and Area CSR Committees have been formed at the



Area level. At Headquarters, the CSR Standing Committee comprises of GM (CSR), GM (Fin), GM (Env), GM (Civil) and CMS for scrutinizing the proposals for financial assistance and CSR activities in WCL.

The CSR budget and expenditure during the last Four years are furnished below:

(Rs.in Lakhs)

Years	Budget	Expenditure
2010-11	2286.75	712.75
2011-12	2182.70	785.70
2012-13	2155.50	2095.57
2013-14	2114.00	2379.57
2014-15	796.80	2014.82

The CSR fund does not get lapsed, hence, the fund can be utilized for carrying out the CSR activities in the subsequent years.

In WCL, the CSR activities are also being undertaken in the villages beyond a radius of 25 kms with the approval of WCL Board. In addition, various NGOs/ Government Organizations are also being extended financial support for upliftment of the society. The base-line survey is being conducted for all CSR activities departmentally and by Tata Institute of Social Sciences and is being implemented by the specialized agencies as per the policy. The monitoring of the CSR activities is done by the CSR Standing Committee at Headquarters and Area CSR Committees at Area level.



**CSR ACTIVITIES IN
WCL
DURING 2014-15**

(Rupees in Lacs)

Sr. No.	Head/ Activities	2014-15	
		Budget : Rs.796.80	
		Expnd.Rs.2014.82 Lacs	
A	INFRASTRUCTURE SUPPORT:		
1	Road (Cement Concrete)		666.19
2	Road (WBM/ Bituminous/Repair)		399.39
3	Community Hall		81.76
4	Boundary Wall		33.95
5	Construction of Drainage/Nala		23..02
6	Construction/ development work in cremation		21.24
7	Construction of Bus Stand/ Shed		7.15
8	Construction of Culvert/ Ripta		63.02
9	Construction of Chabutra/ Choupal		31.90
10	Construction of Rangmanch		33.19
11	Other works		31.89
	SUB TOTAL (A)		1392.70
B	EDUCATION:		
1	Class Rooms (Construction)		33.34
2	Providing furniture		1.09
3	Repairing work slab/ roof of school		-0.23
4	Construction of boundary wall of school		23.82
5	Other works		7.46
	SUB TOTAL (B)		65.48
C	WATER SUPPLY & DRINKING WATER		
1	Hand Pumps (Installation)		35.88
2	Providing Borewell/ Tube Well/ Submersible Pump		20.72
3	Desilting of Ponds/ Well		15.16
4	Laying of Pipe Line		45.20
5	Providing water cooler		17.05
6	Other works		0.88
	SUB TOTAL (C)		134.89
D	HEALTH CARE		
1	Village Medicals Camps		8.37
2	Mobile Medical Camps		13.64
3	Mobile Van Hiring Charges		12.61
4	Other Works		4.00
	SUB TOTAL (D)		38.62



**CSR ACTIVITIES IN
WCL
DURING 2014-15**

(Rupees in Lacs)

Sr. No.	Head/ Activities	2014-15	
		Budget : Rs.796.80	
		Expnd. Rs.2014.82 Lacs	
E	SPORTS AND CULTURAL		
1	Coaching camps for promotion of sports (e.g. Kabaddi, Volley Ball, Kho Kho)		0.4
2	Other Works		13.99
	SUB TOTAL (E)		14.39
F	SOCIAL EMPOWERMENT		
1	Sewing Machine Distribution		0.18
2	Skill Development		9.05
	SUB TOTAL (F)		9.23
G	ENVIRONMENT		
1	Tree Guard		-26.55
2	Tree Plantation		163.48
3	Other works		59.54
	SUB TOTAL (G)		196.47
H	SOLAR LAMPS/ STREET LIGHT		
1	Provision of Solar Lamps		1.99
	SUB TOTAL (H)		1.99
I	SUSTAINABILITY DEVELOPMENT		
1	Preparation and submission of SD Report		1.61
	SUB TOTAL (I)		1.61
J	MISCELLANEOUS		
1	Miscellaneous Works		9.44
	SUB TOTAL (J)		9.44
K	SPILL OVER		
1	Spill over works		
	SUB TOTAL (K)		
L	SWACHH VIDYALAYA ABHIYAN		
1	Toilets construction Vidyalaya		150.00
	SUB TOTAL (L)		150.00
	GRAND TOTAL (A) - (L)		2014.82



**CSR ACTIVITIES IN
WCL
DURING 2013-14**

(Rupees in Lacs)

Sr. No.	Head/ Activities	2013-14	
		Budget : Rs.2114.00	
		Expend. Rs.2379.57 Lacs	
A	INFRASTRUCTURE SUPPORT (CONSTRUCTION):		
1	Road (Cement Concrete)	862.25	
2	Road (WBM/ Bituminous/Repair)	305.40	
3	Community Hall	123.67	
4	Boundary Wall	(-)0.27	
5	Construction of Drainage/ Nala	73.41	
6	Construction/ development work in cremation	25.83	
7	Construction of Bus Stand/ Shed	13.19	
8	Construction of Culvert/ Ripta	2.09	
9	Construction of Dam/ Bridge	188.59	
10	Construction of Chabutra/ Choupal	5.56	
11	Construction of Rangmanch	64.94	
12	Other works	57.67	
	SUB TOTAL (A)	1722.33	
B	EDUCATION:		
1	Class Rooms (Construction)	31.05	
2	Providing furniture	10.59	
3	Repairing work slab/ roof of school	3.23	
4	Construction of boundary wall of school	36.66	
5	Other works	77.40	
	SUB TOTAL (B)	158.93	
C	WATER SUPPLY & DRINKING WATER		
1	Hand Pumps (Installation)	48.76	
2	Providing Borewell/ Tube Well/ Submersible Pump	4.48	
3	Desilting of Ponds/ Well	39.63	
4	Laying of Pipe Line	35.04	
5	Providing water cooler	0.80	
6	Over Head Tank	36.83	
7	Other works	(-)0.25	
	SUB TOTAL ©	165.29	



**CSR ACTIVITIES IN
WCL
DURING 2013-14**

(Rupees in Lacs)

Sr. No.	Head/ Activities	2013-14	
		Budget : Rs.2114.00	
		Expend. Rs.2379.57 Lacs	
D	HEALTH CARE		
1	Village Medical Camps	17.18	
2	Mobile Medical Camps	33.41	
3	Mobile Van hiring charges	9.69	
4	Other works	50.90	
	SUB TOTAL (D)	111.18	
E	SPORTS AND CULTURAL		
1	Coaching camps for promotion of sports (e.g. Kabaddi, Volley Ball, Kho Kho)	3.87	
2	Other Works	17.44	
	SUB TOTAL (E)	21.31	
F	SOCIAL EMPOWERMENT		
1	Self Employment Training	0.60	
2	Sewing Machine Distribution	2.09	
3	Bicycle Distribution	5.57	
4	Other Works	0.37	
	SUB TOTAL (F)	8.63	
G	ENVIRONMENT		
1	Tree Plantation	56.08	
	SUB TOTAL (G)	56.08	
H	MISCELLANEOUS		
1	Miscellaneous Works	79.63	
2	Advance payment	50.75	
3	Service Tax	5.44	
	SUB TOTAL (H)	135.82	
	GRAND TOTAL (B) – (H)	2379.57	



**CSR ACTIVITIES IN WCL
DURING 2012-13**

Sr. No.	Head/ Activities	2012-13	
		Budget:Rs.2155.50	
		Work Done	Expend. Rs.Lac
A	INFRASTRUCTURE SUPPORT (CONSTRUCTION):		
1	Road (Cement Concrete)	33550 Mtrs.	770.03
2	Road (WBM/ Bituminous/Repair)	20495 Mtrs.	222.44
3	Community Hall	36 Nos.	260.06
4	Boundary Wall	2 Nos.	25.23
5	Construction of Drainage/ Nala	13 Nos.	48.00
6	Construction/ development work in cremation	19 Nos.	58.93
7	Construction of Bus Stand/ Shed	4 Nos.	6.84
8	Construction of Culvert/ Ripta	5 Nos.	10.02
9	Construction of Chabutra/ Choupal/ Ranghmanch	55 Nos.	49.80
10	Other works		47.84
	SUB TOTAL (A)		1499.19
B	EDUCATION:		
1	Class Rooms (Construction)	21 Nos.	59.98
2	Providing furniture		2.75
3	Repairing work slab/roof for school		1.40
4	Construction of boundary wall of school	7 Nos.	24.07
5	Other works		32.38
	SUB TOTAL (B)		120.58
C	WATER SUPPLY & DRINKING WATER		
1	Hand Pumps (Installation)	46 Nos.	22.50
2	Providing Borewell/ Tube Well/ Submersible Pump	10 Nos.	35.59
3	Deselting of Ponds/ Well	5 Nos.	32.39



Sr. No.	Head/ Activities	2012-13	
		Budget:Rs.2155.50	
		Work Done	Expend. Rs.Lac
4	Laying of Pipe Line	1 No.	5.44
5	Providing water cooler	-	0.16
6	Over Head Tank	1 No.	23.42
7	Other works		1.86
	SUB TOTAL (C)		121.36
D	HEALTH CARE		
1	Village Medical Camps	221 Nos.	15.38
2	Mobile Medical Camps		7.97
3	Mobile Van hiring charges		7.55
4	Other works		209.53
	SUB TOTAL (D)		240.43
E	SPORTS AND CULTURAL		
1	Coaching camps for promotion of sports (e.g. Kabaddi, Volley Ball, Kho Kho)	14 Nos.	9.51
2	Other Works		2.73
	SUB TOTAL (E)		12.24
F	SOCIAL EMPOWERMENT		
1	Self Employment Training		0.43
2	Sewing Machine Distribution		0.18
3	Bicycle Distribution		0.40
	SUB TOTAL (F)		1.01
G	ENVIRONMENT		
1	Tree Guard		1.00
2	Tree Plantation	100Nos.	0.65
	SUB TOTAL (G)		1.65
H	SOLAR LAMPS/ STREET LIGHT		
1	Provision of Solar Lamp/ Street Light	51 Nos.	12.85
	SUB TOTAL (H)		12.85
I	MISCELLANEOUS		
1	Miscellaneous Works		86.26
	SUB TOTAL (I)		86.26
	GRAND TOTAL (A) – (I)		2095.57



**CSR ACTIVITIES IN WCL
DURING 2011-12**

Sr. No.	Head/ Activities	2011-12	
		Budget:Rs.2182.70	
		Work Done	Expend. Rs.Lac
A	INFRASTRUCTURE SUPPORT (CONSTRUCTION):		
1	Road (Cement Concrete)	12020 Mtrs.	249.23
2	Road (WBM/ Bituminous/Repair)	12960 Mtrs.	149.60
3	Community Hall	3 Nos.	18.21
4	Boundary Wall	2 Nos.	10.52
5	Construction of Drainage/ Nala	2 Nos.	8.28
6	Construction/ development work in cremation	3 Nos.	11.37
7	Construction of Bus Stand/ Shed	1 Nos.	1.41
8	Construction of Culvert/ Ripta	1 Nos.	8.47
9	Construction of Dam/ Birdge	2 Nos.	5.82
10	Other works		29.70
	SUB TOTAL (A)		492.61
B	EDUCATION:		
1	Class Rooms (Construction)	17 Nos.	37.13
2	Providing furniture		4.71
3	Repairing work slab/roof of school		0.68
4	Construction of boundary wall of school	7 Nos.	26.55
5	Other works		4.08
	SUB TOTAL (B)		73.15
C	WATER SUPPLY & DRINKING WATER		
1	Hand Pumps (Installation)	60 Nos.	42.47
2	Providing Borewell/ Tube Well/ Submersible Pump	15 Nos.	25.76
3	Deselting of Ponds/ Well	4 Nos.	6.44



Sr. No.	Head/ Activities	2011-12	
		Budget:Rs.2182.70	
		Work Done	Expend. Rs.Lac
4	Laying of Pipe Line	3 Nos.	8.63
5	Providing water cooler	1 No.	2.68
6	Over Head Tank	3 Nos.	12.49
7	Other works		0.10
	SUB TOTAL (C)		98.57
D	HEALTH CARE		
1	Village Medical Camps	171 Nos.	19.75
2	Mobile Medical Camps		9.43
3	Mobile Van hiring charges		12.23
	SUB TOTAL (D)		41.41
E	SPORTS AND CULTURAL		
1	Coaching camps for promotion of sports (e.g. Kabaddi, Volley Ball, Kho Kho)	24 Nos.	4.81
2	Other Works		3.12
	SUB TOTAL (E)		7.93
F	SOCIAL EMPOWERMENT		
1	Self Employment Training	2 Nos.	1.18
2	Bicycle Distribution	30 Nos.	1.27
	SUB TOTAL (F)		2.45
G	ENVIRONMENT		
1	Tree Guard		3.02
2	Tree Plantation		1.00
	SUB TOTAL (G)		4.02
H	SOLAR LAMPS		
1	Provision of Solar Lamp	241 Nos.	42.46
	SUB TOTAL (H)		42.46
I	MISCELLANEOUS		
1	Miscellaneous Works		22.57
	SUB TOTAL (I)		22.57
J	SPILL OVER		
	Expenditure		0.53
	SUB TOTAL (J)		0.53
	GRAND TOTAL (A) - (J)		785.70



**CSR ACTIVITIES IN WCL
DURING 2010-11**

Sr. No.	Head/ Activities	2010-11	
		Budget:Rs.2286.75	
		Work Done	Expend. Rs.Lac
A	INFRASTRUCTURE SUPPORT (CONSTRUCTION):		
1	Road (Cement Concrete)	7770 Mtrs.	124.83
2	Road (WBM/ Bituminous/Repair)	10170 Mtrs.	115.53
3	Community Hall	11 Nos.	35.05
4	Boundary Wall	2 Nos.	4.47
5	Construction of Drainage/ Nala	5 Nos.	11.90
6	Construction/ development work in cremation	6 Nos.	8.96
7	Construction of Bus Stand/ Shed	2 Nos.	2.57
8	Construction of Culvert/ Ripta	1 No.	0.75
9	Construction of Dam/ Bridge	1 No.	2.82
10	Other works		19.85
	SUB TOTAL (A)		326.73
B	EDUCATION:		
1	Class Rooms (Construction)	15 Nos.	30.86
2	Providing furniture		31.81
3	Repairing work slab/roof of school		5.42
4	Construction of boundary wall of school	9 Nos.	20.36
5	Other works		16.90
	SUB TOTAL (B)		105.35
C	WATER SUPPLY & DRINKING WATER		
1	Hand Pumps (Installation)	92 Nos.	76.44
2	Providing Borewell/ Tube Well/ Submersible Pump	19 Nos.	24.23
3	Desilting of Ponds/ Well	5 Nos.	13.74



Sr. No.	Head/ Activities	2010-11	
		Budget:Rs.2286.75	
		Work Done	Expend. Rs.Lac
4	Laying of Pipe Line	3 Nos.	15.04
5	Providing water cooler	4 Nos.	1.71
6	Other works		1.40
	SUB TOTAL (C)		132.56
D	HEALTH CARE		
1	Village Medical Camps	191 Nos.	18.67
2	Mobile Medical Camps		10.67
3	Other works		34.11
	SUB TOTAL (D)		63.45
E	SPORTS AND CULTURAL		
1	Coaching camps for promotion of sports (e.g. Kabaddi, Volley ball, Kho Kho)	17 Nos.	9.13
2	Other Works		0.30
	SUB TOTAL (E)		9.43
F	SOCIAL EMPOWERMENT		
1	Self Employment Training	1 No.	2.42
2	Sewing Machine Distribution	25 Nos.	1.51
3	Bicycle Distribution	141 Nos.	4.30
	SUB TOTAL (F)		8.23
G	ENVIRONMENT		
1	Tree Guard	30 Nos.	0.74
2	Tree Plantation		1.02
	SUB TOTAL (G)		1.76
H	SOLAR LAMPS		
1	Provision of Solar Lamp	120 Nos.	24.00
	SUB TOTAL (H)		24.00
I	MISCELLANEOUS		
1	Miscellaneous Works		10.28
	SUB TOTAL (I)		10.28
J	SPILL OVER		
	Expenditure		30.96
	SUB TOTAL (J)		30.96
	GRAND TOTAL (A) - (J)		712.75