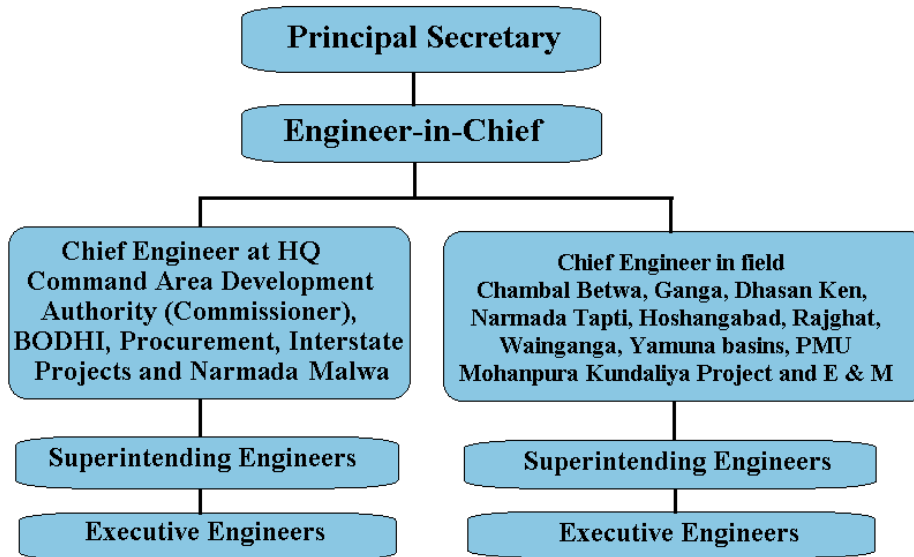


# Appendices



**Appendix 2.1**  
**Organisation Set-up of the Water Resources Department**  
(Reference: Paragraph 2.1.2, Page No. 9)



**Appendix 2.2**

**Statement showing particulars of Turnkey Contract audited in Thematic Audit**

**(Reference: Paragraph 2.1.3, Page no. 9)**

**(₹ in crore)**

Sl. No.	Name of the Division	Name of the work (Agreement Number)	Name of the contractor	Date of work order	PAC	Contract Amount	Stipulated Period	Status of the work	Total expenditure
<b>Irrigation Projects fully awarded on Turnkey basis (Selected for overall analysis)</b>									
1	PMU, Shamgarh	Garoth Micro Irrigation Project (08/2016-17)	Offshore Infrastructures Ltd. Mumbai	11.07.2016	377.75	354.96	30 months including rainy season i.e. 10.01.2019	Ongoing	316.28
2	PMU, Shamgarh	Bhanpura Canal Unit-I (05/2013-14)	Sadbhav Engineering Ltd. Ahmedabad	31.01.2014	107.51	117.50	30 months including rainy season i.e. 30.07.2016	Incomplete final on 31.03.2017	100.02
3	PMU, Shamgarh	Bhanpura Canal Unit-II (02/2015-16)	Phaloudi Construction & Infrastructure Pvt. Ltd., Indore	04.12.2015	63.99	72.24	30 months including rainy season i.e. 03.06.2018	Completed on 30.05.2017	81.49
4	EE, Sip-Kolar Link Project, Rehti	Sip-Kolar Link Project (25/2011-12)	M/s Costal Project Ltd., Hyderabad	02.01.2012	93.70	115.50	30 months including rainy season i.e. 01.07.2014	Ongoing	111.61
<b>Total (A)</b>					<b>642.95</b>	<b>660.20</b>			<b>609.40</b>
<b>Turnkey Contracts selected through sampling for Thematic Audit</b>									
1	EE Bansujara Project Canal Dn., Baldevgarh, Tikamgarh	LBC Bansujara Lift (01/2016-17)	M/s L & T Ltd., Chennai	20.07.2016	829.72	896.50	36 months including rainy season i.e. 10.01.2019	Ongoing	826.95
2	PMU, Mohanpura Kundaliya Project, Rajgarh	LBC Mohanpura (02/2014-15)	M/S Larsen & Toubro	05.02.2015	534.15	486.72	36 months including rainy season i.e. 04.02.2018	Ongoing	465.83
3	PMU, Mohanpura Kundaliya Project, Rajgarh	RBC Mohanpura (01/2016-17)	M/s Offshore Infrastructure Ltd.	13.06.2016	363.00	491.52	36 months including rainy season i.e. 12.06.2019	Ongoing	459.21

(₹ in crore)

Sl. No.	Name of the Division	Name of the work (Agreement Number)	Name of the contractor	Date of work order	PAC	Contract Amount	Stipulated Period	Status of the work	Total expenditure
4	EE Keoti Canal Dn., Rewa	Construction of Bahuti Canal Project (16/2013-14)	M/s Sadbhav Engineering Ltd., Ahmedabad	30.09.2013	439.09	428.00	36 months including rainy season i.e. 29.09.2016	Ongoing	318.58
5	PMU, Mohanpura Kundaliya Project, Rajgarh	Kundaliya Major Multipurpose Project (01/2015-16)	M/s Dilip Buildcon Ltd., Bhopal	05.05.2015	313.40	270	48 months including rainy season i.e. 04.05.2019	Ongoing	265.08
6	EE Teonthar Canal Dn., Rewa	Construction of Tames Main Canal RD 9.60 to 69.50 (03/2013-14)	M/s HES Infra Pvt. Ltd., Hyderabad	01.10.2013	228.89	225.79	36 months including rainy season i.e. 30.09.2016	Ongoing	163.56
7	EE Bansujara Project Canal Dn., Baldevgarh, Tikamgarh	LBC Bansujara (03/2014-15)	M/s A.N.S. Construction Ltd., New Delhi	17.12.2014	336.74	386.54	36 months including rainy season i.e. 16.12.2017	Foreclosed on 02.03.2016 by Department	144.16
8	EE Teonthar Canal Dn., Rewa	Teonthar Lift Canal from 0 to 23 km (02/2011-12)	M/s HES Infra Pvt. Ltd., Hyderabad	05.11.2011	96.32	94.84	15 months including rainy seasons i.e. 04.02.2013	Completed on 05.02.2018	94.84
9	EE, Mahan Canal Dn., Sidhi	Mahan Main Canal from RD 28.56 to 57.05 km (02/2010-11)	M/s HES Infra Pvt. Ltd., Hyderabad	07.03.2011	102.73	90.89	22 months including rainy season i.e. 06.01.2013	Ongoing	88.32
10	EE, Barna LBC Dn., Bari	Structures of Main Canal and LBC (05/2013-14)	M/s Monte Carlo Ltd., Ahmedabad	08.08.2013	72.00	82.37	36 months including rainy, Kharif and Rabi Season i.e. 07.08.2016	Completed on 06.12.2016	82.37
11	EE, WRD Dn., Dindori	Earthwork, Structure and CC lining in distributaries minor and sub minors of Bilgon Medium Project (09/2015-16)	M/s Sarthi Construction, Gwalior	11.12.2015	45.04	53.10	24 months including rainy season i.e. 10.12.2017	Completed on 24.05.2018	60.48
12	EE, Barna LBC Dn., Bari	Construction on turnkey basis for creating additional 10,000 ha command area from Barna LBC system (06/2015-16)	M/s Sarthi Construction, Gwalior	22.06.2015	61.22	69.75	36 months including rainy, Kharif and Rabi Season i.e. 21.06.2018	Ongoing	57.25

(₹ in crore)

Sl. No.	Name of the Division	Name of the work (Agreement Number)	Name of the contractor	Date of work order	PAC	Contract Amount	Stipulated Period	Status of the work	Total expenditure
13	EE, Bansujara Dam Dn., Tikamgarh	Harpura Irrigation Project (01/2012-13)	M/s A.N.S Construction Ltd., New Delhi	11.06.2012	34.53	37.95	18 Months including rainy season i.e. 10.12.2013	Completed on 25.06.2017	37.95
14	EE, Tilwara LBC Dn., Keolari, Distt. Seoni	RD No. 15.00 km to RD no. 31.62 km with minor and sub-minor (04/2013-14)	M/s H.E.S. Infra Pvt. Ltd. & Mantena Construction Pvt. Ltd. Hyderabad	05.11.2013	33.58	33.10	18 Months including rainy season i.e. 04.05.2015	Terminated on 14.08.2017	25.76
15	EE, WRD Dn., Sehore	Canal Network of Ghoghara Complex Medium Project (72/2011-12)	M/s K.E.C. International Ltd., Mumbai	30.12.2011	26.52	25.99	17 Months including rainy season i.e. 29.05.2013	Terminated on 08.01.2015	8.15
16	EE, Sanjay Sagar Bah River Dn., Ganjbasoda	Construction of Dist., minors and sub-minors from 16.00 to 17.00 km and 22.50 to 24.00 km of Main Canal excluding Main Canal of Sagad Medium Project (07/2011-12)	M/s K.E.C. International Ltd., Mumbai	04.05.2011	7.52	7.70	18 Months including rainy season i.e. 03.11.2012	Ongoing	7.70
17	EE, Sanjay Sagar Bah River Dn., Ganjbasoda	Construction of Main Canal from 8.20 to 12.30 km command its distributaries, minor sub-minor of Sanjay Sagar Medium Project (03/2011-12)	M/s K.E.C. International Ltd., Mumbai	04.05.2011	7.42	7.65	18 Months including rainy season i.e. 03.11.2012	Completed on 10.05.2014	7.65
18	EE, Sanjay Sagar Bah River Dn., Ganjbasoda	Construction of Main Canal from 4.50 km to 8.20 km and its distributaries, minors and sub-minors of Sanjay Sagar Medium Project (02/2011-12)	M/s K.E.C. International Ltd., Mumbai	04.05.2011	6.45	6.55	18 Months including rainy season i.e. 03.11.2012	Completed on 05.05.2014	6.55
<b>Total (B)</b>					<b>3,538.32</b>	<b>3,694.96</b>			<b>3,120.39</b>
<b>Grand Total (A+B)</b>					<b>4,181.27</b>	<b>4,355.16</b>			<b>3,729.79</b>

## Appendix 2.3

## Statement showing undue benefit to Contractor due to short receipt of Performance Security

(Reference: Paragraph 2.1.4.1, Page No. 11)

(₹ in crore)

Sl. No.	Name of Division	Agreement Number	Contract Amount	Performance Security		
				Required, i.e. five per cent of Contract Amount	As obtained by Department	Short Receipt
1	EE, Sip-Kolar Link Project Division Nasrullaganj at Camp-Rehti	25/2011-12	115.50	5.78	1.00	4.78
2	PA, Shamgarh Suwasra Project Implementation	05/2013-14	117.50	5.88	1.00	4.88
3	Unit, Shamgarh, Distt. Mandsaur	08/2016-17	354.96	17.75	7.10	10.35
4	EE, Keoti Canal Division, Rewa	16/2012-13	428.00	21.40	1.00	20.40
5	EE, Barna LBC Dn., Bari	05/2013-14	82.37	4.12	1.00	3.12
6		06/2015-16	69.75	3.49	1.00	2.49
7	EE, WR Dn., Sehore	72/2011-12	25.99	1.30	1.00	0.30
8	EE, Teonthar Canal Dn., Rewa	02/2011-12	94.84	4.74	1.00	3.74
9		03/2013-14	225.79	11.29	1.00	10.29
10	EE, Bansujara Canal Dn., Tikamgarh	01/2016-17	896.50	44.83	17.93	26.90
11	PMU, Mohanpura Kundaliya Project, Rajgarh	01/2016-17	491.52	24.58	9.83	14.75
12	EE, Tilwara LBC Dn., Keolari	04/2013-14	33.10	1.66	1.00	0.66
<b>Total</b>				<b>146.82</b>	<b>43.86</b>	<b>102.66</b>

**Appendix 2.4**

**Statement showing details of payment of Price Adjustment**

**(Reference: Paragraph 2.1.4.1, Page No. 12)**

**(₹ in crore)**

Sl. No.	Name of the division	Name of work	Agreement No.	Payment of Price Adjustment
1	PMU, Mohanpura Kundaliya Project, Rajgarh	Mohanpura LBC Canal Lift Irrigation System	02/2014-15	0.73
2		Mohanpura RBC Canal Lift Irrigation System	01/2016-17	35.55
3		Kundaliya Major Multipurpose project, Rajgarh	01/2015-16	2.27
4	EE Bansujara Project Canal Division, Baldevgarh, Tikamgarh	Bansujara Project Left Bank Main Canal for micro irrigation of the CCA 75000 ha	01/2016-17	50.25
5		LBC system for Bansujara Project to irrigate 60000ha	03/2014-15	-2.8
6	PA, Shamgarh Suwasra Project Implementation Unit, Shamgarh, District, Mandsaur	Bhanpura Canal Unit-II	02/2015-16	3.46
7		Garoth micro irrigation project	08/2016-17	35.07
<b>Total</b>				<b>124.53</b>



## Appendix 2.5

## Statement showing details of extra cost paid to the contractor

Reference: Paragraph 2.1.4.2, Page No. 14)

Name of the Division	Agreement No.	Item of work	Quantity	Unit	Rate Paid (₹)	Payable Rate (₹)	Extra Rate (₹)	Extra Cost (₹)	Reason for Inflated estimate
1	2	3	4	5	6	7	8 = 6-7	9 = 4 × 8	10
Project Administrator, Mohanpura Kundaliya Project Monitoring Unit, Rajgarh	02/2014-15	Addition of 15 per cent extra rate for erection and commissioning in Radial Gate	1,718.63	MT	93,085.70	79,122.85	13,962.85	2,39,96,973	As per USR, rates of Radial Crest Gates are inclusive of Design/Drawing, fabrication, supply and erection and additionally not payable.
		Addition of extra rate for Shuttering in CC work	4,50,061.48	Cum	50.83	0	50.83	2,28,76,625	As per USR, rate for shuttering was inclusive in the cost of cement concrete work.
EE, Bansujara Canal Division, Baldevgarh, Tikamgarh	03/2014-15	Earthwork in canal and dam with all leads and lifts	9,63,056.00	Cum	46.25	0	46.25	4,45,41,340	As per USR, rates for earthwork are inclusive of excavation, carting of excavated soil and laying in the layers. The excavation was to be treated as quarry. In this case, excavation of utilizable soil which was used in earthwork was paid separately.
EE, Sip Kolar Link Project Camp at Rehti	25/2011-12	Tunnel work	270.00	m	95,419.61	25,147.08	70,272.53	1,89,73,583	Before the NIT, cost of the tunnel was increased (June 2011) by ₹ 18.99 crore on the plea that half of the tunnel passes through red bole and fractured rock area, and require support system. After award of work, it was decided (May 2013) to reduce the length of tunnel by 270 m on the same plea. But, the rate of tunnel per m was not regulated in the estimate.
<b>Total</b>								<b>11,03,88,521</b>	

**Appendix 2.6**

**Statement showing details of NIT advertised in Newspapers as per Director, Public Relation**

**(Reference: Paragraph 2.1.4.3(I), Page No. 15)**

Sl. No.	System Tender No.	Name of work	NIT advertised in Newspapers as claimed by the Department		Newspaper cutting produced to Audit
			National level	State level	
1	5252	Construction of Garoth pressurised Micro-Irrigation system for 21400 ha	6	4	1
2	5069	Mohanpura Right Bank Pressurised Irrigation Project	5	5	1
3	5096 & 5283	Construction of Tunnel of Bhanpura Canal	6	8	0
4	756	Construction of Main Canal from 16.00 km to 17.00 km and 22.50 km to 24.00 km and its distributaries, minor and sub-minor of Sanjay Sagar Bah Medium Project	8	7	0
5	317, 901, 2408, 2986, 3681	Construction of Bhanpura Main Canal distributary, minor and sub-minor of Bhanpura Canal project for irrigation of CCA 12500 ha including running maintenance and testing of whole canal system for one year together with defect liability period of 36 month on turnkey basis	12	5	1
6	1374	Sip Kolar Link Project	0	2	2
7	9065	Construction of RD No. 15.00 km to RD no. 31.62 km with minor and sub-minor and masonry lining work from turnkey system Ag. No. 4/DL of 2013-14 dated 03.11.2013	5	8	0
8	1461	Construction of Main Canal, distributary, minor and sub minor of Ghoghara complex medium project in Sehore District.	9	7	0
9	2527	Planning, Design-drawing, estimation and construction on turnkey basis for creating additional 10,000 ha command area from Barna LBC system	5	5	0
10	1783	Harpura Irrigation Project	7	9	0
11	1116	Construction of LBC system from Bansujara dam including work required for excavation, earthwork, lining and const. of structures of Main Canal, distributaries, minors and sub minors to irrigate 60000 ha.	8	0	0
12	5093	Supplying of water by constructing balance Reservoir/distribution chamber at RD 30900 m of Bansujara Project LBMC	5	5	0
13	3607	Construction of earthwork structure and cast in situ CC lining in distributaries minor and sub minors of Disnet work of Bilgon Medium Project	8	10	0
14	4503	Construction of Tames Main Canal RD 9.60 km to 69.50 km, Mahan Distributary and Chilla Branch Canal and their distribution network	8	9	0
15	4985	Construction of Bahuti Canal Project	7	7	0
16	4240	Design-Drawing, Estimation and Construction on Turnkey Basis of Barna Project Common main Canal's and Left Bank Main Canal's hydraulic structures in 27 nos.	4	10	0
17	752	Construction of Main Canal from 8.20 km to 12.30 km command its distributaries, minor sub-minor	8	8	2
18	751	Construction of Main Canal from 4.50 km to 8.20 km and its distributaries, minor sub-minor	8	8	2
<b>Total</b>			<b>119</b>	<b>117</b>	<b>9</b>

### Appendix 2.7

#### Status of work of Sip-Kolar Link Project

(Reference: Paragraph 2.1.6.1(II), Page No. 22)

(Quantity in cum)

Sl. No.	Particulars	Total quantity	Quantity executed up to date	Quantity balance up to date	Executed quantity in percentage	Balance quantity percentage
<b>1</b>	<b>Sip weir</b>					
	Concrete work	58750	56700	2050	96.5	3.5
<b>2</b>	<b>Kaldev weir</b>					
	Earth work (Earthen Dam)	40000	32500	7500	81.3	18.7
	Concrete work	13100	11300	1800	86.3	13.7
<b>3</b>	<b>Ghorapachar wier</b>					
	Concrete work	12075	12015	60	99.5	0.5
<b>4</b>	<b>Canal &amp; Structure</b>					
	Earth work	220000	216700	3300	98.5	1.5
	Concrete work	37500	32450	5050	86.5	13.5
<b>5</b>	<b>Tunnel work (length in meter)</b>					
	Driving work	5670	5670	0	100.0	0.0
	Lining work					
	(a) Gantry Lining	5643	5001	642	88.6	11.4
	(b) Bed Lining	5670	2890	2780	51.0	49.0

### Appendix 2.8

#### Statement showing the details of Excess payments due to change in the scope of work and payment for work not done

(Reference: Paragraph 2.1.6.9, Page No. 28)

Sl. No.	Name of work (Agreement No.)	Description of work not executed	Reasons	Amount (₹ in crore)
1	Teonthar Lift Canal, (02/2011-12)	Balance earthwork of Main Canal, structures and lining of existing minors, supplementary lifts, sub-minors and renovation of Rajapur Canal	Not completed by the contractor.	7.75
2	Harpura Canal, (01/2012-13)	Distributaries and minors	Due to non-providing the land and refusal by the farmers.	1.90
3	Development of additional command area of 10,000 ha, (06/2015-16)	Service road/ Inspection path	Deletion by the contractor.	1.23
4	Upper Tilwara LBC (04/2013-14)	The Contractor had to develop 4680.528 ha of command area. But he developed 2381 ha of command area only	The work was terminated due to slow progress of work and the payment was not regulated accordingly.	8.92 (25.76-16.84)
			<b>Total</b>	<b>19.80</b>

### Appendix 2.9

Statement showing the details of non-formation of Squad Team and Field Laboratories

(Reference: Paragraph 2.1.7.2, Page No. 34)

Sl. No.	Name of the Division	Agreement No.	Squad Team	Field Lab
1	PA, PMU, Shamgarh	05/2013-14	No	No
2		02/2015-16	No	No
3		08/2016-17	No	No
4	EE, Sip-Kolar Link Project, Rehti, Sehore	25/2011-12	No	No
5	EE, Mahan Canal Dn., Sidhi	02/2010-11	No	No
6	EE, WR Dn., Sehore	72/2011-12	No	No
7	EE, WR Dn., Dindori	09/2015-16	No	No
8	EE, Teonthar Canal Dn., Rewa	02/2011-12	No	No
9		03/2013-14	No	No
10	EE, Bansujara Canal Dn. Baldevgrah,	01/2016-17	No	Yes
11	Tikamgarh	03/2014-15	No	Yes
12	EE, Bansujara Dam Dn. Tikamgarh	01/2012-13	No	Yes
13	EE, Sanjay Sagar Bah River Project, Ganjbasoda	02/2011-12	No	No
14		03/2011-12	No	No
15		07/2011-12	No	No
16	EE Barna LBC Dn. Bari, Raisen	06/2015-16	No	Yes
17		05/2013-14	No	Yes
18	PMU, Mohanpura and Kundaliya Project, Rajgarh	02/2014-15	No	Yes
19		01/2016-17	No	Yes
20		01/2015-16	No	Yes
21	EE, Keoti Canal Dn. Rewa	16/2013-14	No	Yes
22	EE, Tilwara LBC Dn., Keolari	04/2013-14	No	Yes

**Appendix 2.10**

**Statement showing details of Short Realisation of charges**

(Reference: Paragraph 2.2.2, Page No. 39)

(Amount in ₹)

Sl. No.	Details	Particulars of calculation	Hata-Fatehpur-Silpuri-Darguwa two lane road (Case-I)	765 KV double circuit Jabalpur-poling Urai transmission line (Case-II)
1	Total estimated Project cost for CA (without fixed charges)	-	82,86,000	1,68,85,000
<b>Amount actually charged from User Agency:</b>				
2	One hectare project cost for CA	Total cost/total land affected: For case 1: ₹ 82,86,000/20.720 ha = ₹ 3,99,903 For case 2: ₹ 1,68,85,000/41.432 ha = ₹ 4,07,535	3,99,903	-
3	Monitoring and Evaluation	20 per cent of one ha estimated cost i.e. Sl. No.2	79,981	81,507
4	Aastha-Mulak	12 per cent of one ha estimated cost i.e. Sl.No.2	47,988	48,904
5	Human Resource Development	Three per cent of total estimated cost i.e. Sl. No 2	11,997	12,226
6	Supervision Charge	At the rate of 10 per cent of total project cost including Sl. No 3, 4 and 5 i.e. for case 1: 10 per cent of (82,86,000 + 79,981 + 47,988+ 11,997) = 8,42,597 i.e. for case 2: 10 per cent of (1,68,85,000 + 81,507+48,904+12,226) = 17,02,764	8,42,597	-
7	Total amount actually charged from user agency	Sum of Sl. No. 1, 3, 4, 5 and 6	92,68,563	1,87,30,401
<b>Amount to be charged from User Agency as per audit:</b>				
8	Monitoring and Evaluation	20 per cent of total estimated cost i.e. Sl. No. 1	16,57,200	33,77,000
9	Aastha-Mulak	12 per cent of total estimated cost i.e. Sl. No. 1	9,94,320	20,26,200
10	Human Resource Development	Three per cent of total estimated cost i.e. Sl. No. 1	2,48,580	5,06,550
11	Supervision Charge	At the rate of 10 per cent of total project cost including Monitoring and Evaluation, Aastha-Mulak, HRD charges	11,18,610	22,79,475
12	Total chargeable amount	Sum of Sl. No. 1, 8, 9, 10 and 11	1,23,04,710	2,50,74,225
<b>Short Realisation = Sl. No. 12 - Sl. No.7</b>			30,36,147	63,43,824
<b>Total Short Realisation</b>			<b>93,79,971</b>	

## Appendix 2.11

## Statement showing non-execution of Dowel Bars in Cement Concrete Pavement

(Reference: Paragraph 2.2.4, Page No. 42)

Sl. No.	Name of road (approved thickness of Cement Concert Pavement)	Provisioned CC Length (In Km)	Scheduled Quantity of Dowel Bar (In MT)	Reach wise execution (In meter)	CC executed in Road length (In Km)	Quantity of M- 40 grade CC Executed (In cum)
1.	Bhiraopur–Jeeraveh-Nipaniya-Hanuman mandir road (250 mm)	0.400	0.287	0-260	0.435	243.75
				260-360		93.75
				360-435		70.312
2.	Luchgaoun to Umariya road (200 mm)	1.420	1.176	0-1360	1.400	1,020.00
				1360-1400		30
3.	Umariya to Paapan tiraha (200 mm)	1.000	1.272	0-1000	1.100	750
				1000-1100		75
<b>Total</b>		<b>2.820</b>	<b>2.735</b>		<b>2.935</b>	<b>2,282.812</b>

**Appendix 2.12**

**Statement showing extra cost due to application of incorrect rates for Earth Work**

(Reference: Paragraph 2.2.7, Page No. 49)

(Quantities in cum and Amount in ₹)

Clubbed items as per schedule	Clubbed rate as per estimate			Clubbed rate payable			Difference in Unit Rate
	Quantity	Rate	Amount	Quantity	Rate	Amount	
<b>Agreement No.5 /2014-15</b>							
Earth work of bund in hearting or casing with approved soil, including dressing, breaking clods, layers of 15 cm thickness, cutting and finishing U/S and D/S slopes of Bunds	49,636.26	54	26,80,358.04	24,636.26	54	13,30,358.04	
(i) All lifts and leads beyond 0.50 km to two km of all materials and all other charges but excluding watering and compaction							
(ii) All lifts and leads beyond two km of all materials and all other charges but excluding watering and compaction				25,000	64	16,00,000.00	
Extra lead beyond two km	25,000	72.52	18,13,000				
Compaction of earth work (excluding watering)	49,636.26	8	3,97,090.08	49,636.26	8	3,97,090.08	
Watering earth work with lead up to 100 m	49,636.26	13	6,45,271.38	49,636.26	13	6,45,271.38	
Lead of water for earth one kilometer	49,636.26	4.5	2,23,363.17	49,636.26	4.5	2,23,363.17	
<b>Total</b>	<b>49,636.26</b>		<b>57,59,082.67</b>	<b>49,636.26</b>		<b>41,96,083</b>	
<b>unit rate</b>		<b>116.03</b>			<b>84.54</b>		
<b>Rate including Tender premium 14.23 per cent above</b>		<b>132.54</b>			<b>96.57</b>		<b>35.97</b>
<b>Executed quantity</b>							<b>51,120.84</b>
<b>(A) Excess payment for the executed quantity</b>							<b>18,38,817</b>
<b>Agreement No.1 /2015-16</b>							
Earth work of bund in hearting or casing with approved soil, including dressing, breaking clods, layers of 15 cm thickness, cutting and finishing U/S and D/S slopes of Bunds	1,88,651	54	1,01,87,154	25,503	54	13,77,162	
(i) All lifts and leads beyond 0.50 km to two km of all materials and all other charges but excluding watering and compaction							
(ii) All lifts and leads beyond two km of all materials and all other charges but excluding watering and compaction				1,63,148	64	1,04,41,472	
Extra lead beyond two km	1,63,148	72.52	1,18,31,493				
Compaction of earth work (excluding watering)	1,88,651	8	15,09,208	1,88,651	8	15,09,208	
Watering earth work with lead up to 100 m	1,88,651	13	24,52,463	1,88,651	13	24,52,463	
Lead of water for earth two kilometre	188,651	9	16,97,859	1,88,651	9	16,97,859	
<b>Total</b>	<b>1,88,651</b>		<b>2,76,78,177</b>	<b>1,88,651</b>		<b>1,74,78,164</b>	
<b>Unit Rate</b>		<b>146.72</b>			<b>92.65</b>		
<b>Rate including Tender premium 10.00 per cent above</b>		<b>161.39</b>			<b>101.91</b>		<b>59.47</b>
<b>Executed quantity</b>							<b>1,67,632.59</b>
<b>(B) Excess payment for the executed quantity</b>							<b>99,69,110.13</b>
<b>Total Excess payment (A + B)</b>							<b>1,18,07,927</b>



## Appendix 2.13

## Statement showing project-wise details of the works

(Reference: Paragraph 2.2.8, Page No. 50)

Name of the Project	Contractor	Agreement No.	PAC	Contract amount	Payment made
Sagad Medium Project	M/s Phaludi constructions & Infrastructure Pvt. Ltd.	09/2013-14	₹ 25.01 crore	₹ 27.48 crore (i.e. 9.88 per cent above PAC)	₹ 23.09 crore paid vide 29 <sup>th</sup> Running Bill
Ukayla Canal Project	M/s Harsiddhi Construction co. Jhansi	7/2014-15	₹ 6.51 crore	₹ 7.49 crore (i.e. 15 per cent above PAC)	₹ 6.12 crore paid vide 22 <sup>nd</sup> Running Bill
Balrampur Canal Project	M/s K N Narang, Bhopal	03/2014-15	₹ 6.36 Crore	₹ 7.31 crore (i.e. 14.90 per cent above PAC)	₹ 5.10 crore paid vide 35 <sup>th</sup> Running Bill
Datuni Tank Project (Canal Work)	M/s PC & IPL Indore (Joint Venture of M/s Phaloudi Construction & Infrastructure PVT Ltd Indore and Krupanidhi construction Vadodara	13/2013-14	₹ 38.38 crore	₹ 45.62 crore (i.e. 18.89 per cent above PAC)	₹ 46.98 crore paid vide 42 <sup>nd</sup> and Final Bill
Minor Canal Work, Datuni Tank Project (Phase II)	M/s Rajendra Singh Chandrawat	05/2014-15	₹ 7.30 crore	₹ 8.34 crore (i.e. 14.23 per cent above PAC)	₹ 5.89 crore paid vide 10 <sup>th</sup> & Final Bill

**Appendix 2.14**

**Statement showing Clubbed rate paid and Clubbed rate payable**

**(Reference: Paragraph 2.2.8, Page No. 50)**

(Quantities in cum and amount in ₹)

USR Item no.	Item	Quantity	Rate paid	Amount	Rate payable	Amount	Difference in unit rate
<b>Sagad Medium Project, Agreement no. 9/2013-14</b>							
<b>Canal Bed</b>							
2512 (c)	Nominal Mix M-15	1,827.18	2,646.00	48,34,718.28	-	-	3,375.26 - 3,072.26 = 303.00
2512 (a) (i)	Design Mix M-10	1,827.18	-	-	2,302.00	42,06,168.36	
2531 (ii)	Extra for 20 mm metal	1,827.18	93.00	1,69,927.74	-	-	
2531 (i)	Extra for 20 mm metal	1,827.18	-	-	134.00	2,44,842.12	
725 (xi)	Extra for black trap basalt	1,827.18	33.80	61,758.68	33.80	61,758.68	
2902	Lead for metal	1,553.10	250.20	3,88,585.62	250.20	3,88,585.62	
2902	Lead for sand	785.68	791.28	6,21,692.87	791.28	6,21,692.87	
2902	Lead for cement	401.99	225.18	90,520.11	225.18	90,520.11	
		1,827.18		61,67,203.30		56,13,567.76	
Clubbed Rate			61,67,203.30/1,827.18 = 3,375.26		56,13,568.16/1,827.18 = 3,072.26		
Executed Quantity = 1,737.193 cum							
<b>Extra Cost (A) = 1,737.193 × 303 = 5,26,370 + 9.88 per cent Tender Premium = ₹ 5,78,375</b>							
<b>Canal Side Slopes</b>							
2512 (d)	Nominal Mix M-15	5,012.57	3,175.00	1,59,14,909.75	-	-	3,904.26 - 3,446.26 = 458
2512 (a) (ii)	Design Mix M-10	5,012.57	-	-	2,676.00	1,34,13,637.32	
2531 (ii)	Extra for 20 mm metal	5,012.57	93.00	4,66,169.01	-	-	
2531 (i)	Extra for 20 mm metal	5,012.57	-	-	134.00	6,71,684.4	
725 (xi)	Extra for black trap basalt	5,012.57	33.80	1,69,424.87	33.80	1,69,424.9	
2902	Lead for metal	4,260.69	250.20	10,66,024.64	250.20	10,66,024.6	
2902	Lead for sand	2,155.41	791.28	17,05,532.82	791.28	17,05,532.8	
2902	Lead for cement	1,102.76	225.18	2,48,319.50	225.18	2,48,319.5	
		5,012.57		1,95,70,380.59		1,72,74,623.5	
Clubbed Rate			1,95,70,380.59/5,012.57 = 3,904.26		1,72,74,623.5/5,012.57 = 3,446.26		
Executed Quantity = 5,084.915							
<b>Extra Cost (B) = 5,084.915 × 458 = 23,28,891.07 + 9.88 per cent Tender Premium = ₹ 25,58,986</b>							
<b>Balrampur Canal Project, Agreement no. 03/2014-15</b>							
<b>Canal Bed</b>							
2512 (c)	Nominal Mix 1:2:4	749.79	2,646.00	19,83,944.34	-	-	3,414.93 - 3,111.93 = 303
2512 (a) (i)	Design Mix M-10	749.79	-	-	2,302.00	17,26,016.6	
2531 (ii)	Extra for 20 mm metal	749.79	93.00	69,730.47	-	-	
2531 (i)	Extra for 20 mm	749.79	-	-	134.00	1,00,471.9	

(Quantities in cum and amount in ₹)

USR Item no.	Item	Quantity	Rate paid	Amount	Rate payable	Amount	Difference in unit rate
	metal						
2902	Lead for metal	674.81	273.70	1,84,695.50	273.70	1,84,695.5	
2902	Lead for sand	337.40	885.78	2,98,862.17	885.78	2,98,862.2	
2902	Lead for cement	115.46	201.33	23,245.56	201.33	23,245.6	
		749.79		25,60,478.04		23,33,291.7	
Clubbed Rate			25,60,478.04/749.79 = 3,414.92		23,33,291.7/749.79 = 3,111.92		
Executed Quantity = 286.561 cum							
<b>Extra Cost (C) = 286.561 × 303 = 86,827.98 + 14.90 per cent Tender Premium) = ₹ 99,765</b>							
<b>Canal Side Slopes</b>							
2512(d)	Nominal Mix M-15	1,197.55	3,175.00	38,02,221.25	-	-	3,943.93 -3,485.93 = 458
2512(a) (ii)	Design Mix M-10	1,197.55	-	-	2,676.00	32,04,643.8	
2531(ii)	Extra for 20 mm metal	1,197.55	93.00	1,11,372.15	-	-	
2531(i)	Extra for 20 mm metal	1,197.55	-	-	134.00	1,60,471.7	
2902	Lead for metal	1,077.79	273.70	2,94,991.12	273.70	2,94,991.1	
2902	Lead for sand	538.89	885.78	4,77,337.98	885.78	4,77,338.0	
2902	Lead for cement	184.42	201.33	37,129.28	201.33	37,129.3	
		1,197.55		47,23,051.79		41,74,573.9	
Clubbed Rate			47,23,051.79/1,197.55 = 3,943.92		41,74,573.9/1,197.55 = 3,485.92		
Executed Quantity = 1,088.015							
<b>Extra Cost (D) = 1,088.015 × 458 = 4,98,310.87 + 14.90 per cent Tender Premium = ₹ 5,72,559</b>							
<b>Ukayala Canal Project, Agreement no. 07/2014-15</b>							
<b>Canal Bed</b>							
2512(c)	Nominal Mix CC 1:2:4	557.78	2,646.00	14,75,885.88	-	-	3,414.93 -3,111.93 = 303
2512(a) (i)	Design Mix M-10	557.78	-	-	2,302.00	12,84,009.6	
2531(ii)	Extra for 20 mm metal	557.78	93.00	51,873.54	-	-	
2531(i)	Extra for 20 mm metal	557.78	-	-	134.00	74,742.5	
2902	Lead for metal	502.00	273.70	1,37,397.40	273.70	1,37,397.4	
2902	Lead for sand	251.00	885.78	2,22,330.78	885.78	2,22,330.8	
2902	Lead for cement	85.89	201.33	17,292.23	201.33	17,292.2	
		557.78		19,04,779.83		17,35,772.5	
Clubbed Rate			19,04,779.83/557.78 = 3,414.93		17,35,772.5/557.78 = 3,111.93		
Executed Quantity = 540.08 cum							
<b>Extra Cost (E) = 540.08 × 303 = 1,63,644.24 + 15 per cent Tender Premium = ₹ 1,88,191</b>							
<b>Canal Side Slopes</b>							
2512(d)	Nominal Mix M-15	2,215.19	3,175.00	70,33,228.25	-	-	3,943.93 - 3,485.93 = 458
2512(a) (ii)	Design Mix M-10	2,215.19	-	-	2,676.00	59,27,848.44	
2531(ii)	Extra for 20 mm metal	2,215.19	93.00	2,06,012.67	-	-	

(Quantities in cum and amount in ₹)

USR Item no.	Item	Quantity	Rate paid	Amount	Rate payable	Amount	Difference in unit rate
2531(i)	Extra for 20 mm metal	2,215.19	-	-	134.00	2,96,835.46	
2902	Lead for metal	1,993.67	273.70	5,45,667.48	273.70	5,45,667.00	
2902	Lead for sand	996.83	885.78	8,82,972.08	885.78	8,82,972.00	
2902	Lead for cement	341.13	201.33	68,679.70	201.33	68,680.00	
		2,215.19		87,36,560.18		77,22,002.90	
Clubbed Rate				87,36,560.18/2,215.19 = 3,943.93		77,22,003.2/2,215.19 = 3,485.93	
Executed Quantity = 2,846.61 cum							
<b>Extra Cost (F) = 2,846.61 × 458 = 10,14,557.02 + 15 per cent Tender Premium = ₹ 14,99,310</b>							
<b>Datuni Tank Project (Canal Work), Agreement no. 13/2013-14</b>							
<b>Canal Bed</b>							
2507(A) (a)	Nominal Mix CC 1:3:6 for in-situ sleepers	6,350.61	2,471.00	1,56,92,357.31	-	-	
2512(e) (i) + 2531 (i)	Nominal Mix CC 1:3:6 for canal lining	6,350.61	-	-	2,309.00	1,46,63,558.5	
<b>Canal Side Slopes</b>							
2507(A) (b)	Nominal Mix CC 1:3:6 for in-situ sleepers	23,943.49	2,873.00	6,87,89,646.77	-	-	
2512(e)(ii) + 2531 (i)	Nominal Mix CC 1:3:6 for canal lining	23,943.49	-	-	2,663.00	6,37,61,513.9	3,250.54 - 3,050.60 = 199.94
2902	Lead for cement	4,665.29	468.18	21,84,195.47	468.18	21,84,195.5	
2902	Lead for sand	13,632.35	349.38	47,62,870.44	349.38	47,62,870.4	
2902	Lead for metal	27,264.69	197.21	53,76,869.51	197.21	53,76,869.5	
	Lead for water	30,294.10	55.00	16,66,175.50	55.00	16,66,175.5	
		30,294.10		9,84,72,115.01		9,24,15,183.3	
Clubbed Rate				9,84,72,115.01/30,294.10 = 3,250.53		9,24,15,183.3/30,294.10 = 3,050.60	
Executed Quantity = 23,424.522 cum							
<b>Extra Cost (G) = 23,424.522 × 199.94 = 46,83,498.92 + 18.89 per cent Tender Premium = ₹ 55,68,212</b>							
<b>Minor Canal Work, Datuni Tank Project (Phase II), Agreement no. 05/2014-15</b>							
<b>Canal Bed</b>							
2507(A)(a) + 2531 (i)	Nominal Mix CC 1:3:6 for in-situ sleepers	1,160.78	2,605.00	30,23,831.90	-	-	
2512(a)(i) (a) + 2531(i)	Design Mix M-10	1,160.78	-	-	2,436.00	28,27,660.1	3,075.32 - 2,906.32 = 169
2902	Lead for cement	178.76	523.53	93,586.22	523.53	93,586.2	
2902	Lead for sand	522.35	349.38	1,82,498.64	349.38	1,82,498.6	
2902	Lead for metal	1,044.70	197.20	2,06,014.84	197.20	2,06,014.8	
2902	Lead for water	1,160.78	55.00	63,842.90	55.00	63,842.9	
		1,160.78	3,075.32	35,69,774.51	2,906.32	33,73,598.1	
Executed Quantity = 704.57 cum							
<b>Extra Cost (H) = 704.57 × 169 = 1,19,004.56 + 14.23 per cent Tender premium = ₹ 1,36,016</b>							

(Quantities in cum and amount in ₹)

USR Item no.	Item	Quantity	Rate paid	Amount	Rate payable	Amount	Difference in unit rate
<b>Canal Side Slopes</b>							
2512(d) + 2531(i)	Design Mix CC 1:3:6 for in-situ sleepers	2,904.92	2,966.00	86,15,992.72	-	-	3,436.32 - 3,280.32 = 156
2512(a)(i)(b) + 2531(i)	Design Mix M-10	2,904.92	-	-	2,810.00	81,62,825.20	
2902	Lead for cement	447.36	523.53	2,34,206.38	523.53	2,34,206.4	
2902	Lead for sand	1,307.21	349.38	4,56,713.03	349.38	4,56,713.00	
2902	Lead for metal	2,614.43	197.20	5,15,565.60	197.20	5,15,565.6	
2902	Lead for water	2,904.92	55.00	1,59,770.60	55.00	1,59,770.6	
		2,904.92		99,82,248.33		95,29,080.8	
Clubbed Rate			99,82,248.33/2,904.92		95,29,080.8/2,904.92		
			= 3,436.32		= 3,280.32		
Executed Quantity= 1,676.25 cum							
<b>Extra Cost (I) = 1,676.25 × 156 = 2,61,495 + 14.23 per cent Tender Premium = ₹ 2,98,706</b>							
<b>Extra cost in Part (i) = A+B+C+D+E+F = ₹ 54,97,186</b>							
<b>Extra cost in Part (ii) = G+H+I = ₹ 58,66,918</b>							
<b>Total Extra Cost = (i) + (ii) = ₹ 1,13,64,104</b>							

**Appendix 2.15**

**Statement showing extra cost due to inadmissible lead**

**(Reference: Paragraph 2.2.9, Page No. 52)**

Sl. No.	Grading of Concrete	Quantity of sand considered for lead in one cum of concrete (in cum) for deriving unit rate	Executed quantity of Concrete (in cum)	Quantity of sand for which lead paid (in cum)	Lead paid at the rate of ₹ 901.53 (₹)	Lead payable at the rate of ₹ 98.28 (₹)	Extra cost on work (₹)
1	2	3	4	5 = 3 × 4	6 = 5 × ₹ 901.53	7 = 5 × ₹ 98.28	8 = 6 - 7
1.	M-20 controlled concrete for PCC with graded metal of 40 mm	0.41	68,325.17	28,013.32	2,52,54,848.11	27,53,149.06	2,25,01,699.05
2.	M-15 controlled concrete for PCC with graded metal of 40 mm	0.43	5,12,362.70	2,20,315.94	19,86,21,428.94	2,16,52,650.53	17,69,68,778.40
3.	M-25 controlled concrete for RCC with graded metal of 40 mm	0.38	1,95,277.90	74,205.61	6,68,98,583.22	72,92,927.31	5,96,05,655.91
4.	M-25 controlled concrete for RCC with graded metal of 20 mm	0.38	15,562.14	5,913.61	53,31,299.71	5,81,189.91	47,50,109.80
5.	M-30 controlled concrete for RCC with graded metal of 40 mm	0.38	42,709.13	16,229.47	1,46,31,353.55	15,95,032.25	1,30,36,321.30
<b>Total</b>			<b>8,34,237.04</b>	<b>3,44,677.95</b>	<b>31,07,37,513.53</b>	<b>3,38,74,949.06</b>	<b>27,68,62,564.46</b>
<b>Total applying Tender Premium (14.40 per cent below)</b>					<b>26,59,91,311.58</b>	<b>2,89,96,956.40</b>	<b>23,69,94,355.18</b>

## Annexure 2.16

## Extra cost due to considering additional lead for the lining work by Paver machine

(Reference: Paragraph 2.2.10, Page No. 52)

Sl. No.	Name of Division	Name of work	Contract amount (₹ in crore)	Quantity of CC executed for lining in bed and slope (in cum)	Rate of CC adopted (₹ per cum)	Rate to be adopted without considering lead of material (₹ per cum)	Difference in rate (₹ per cum)	Extra cost (₹)	Extra cost with tender premium (₹)
1	2	3	4	5	6	7 (As per Annexure B)	8=6-7	9=5×8	10=9+ Tender Premium
1.	EE, Upper Purwa Canal division, Rewa	Balance work of CC lining from RD 0 Km to 31,000 Km of Purwa Main Canal (Agreement No. 03/2015-16)	33.32 (19.11 per cent above PAC)	20,512.937	3,654.88	3,218.88	436.00	89,43,718.37	1,06,52,862.95
2.	EE, Lower Purwa Canal division, Satna	CC lining by paver machine in Purwa Main Canal from RD 31 Km to 90.06 Km (Agreement No. 04/2012-13)	51.41 (4.78 per cent above PAC)	78,160.765	4,971.36	4,443.06	528.30	4,12,92,332.15	4,32,66,105.63
		Construction of CC lining of Purwa Main Canal from 90.06 Km to 132.390 Km and Pathanda distributor, tail minor by Paver and manual (Agreement No. 01/2016-17)	39.24 (19.95 per cent above PAC)	2,301.730 (Bed) 10,518.510 (Slope)	3,551.80 3,706.69	3,106.00 (Bed) 3,256.00 (Slope)	445.80 450.69	10,26,088.22 47,40,587.27	12,30,792.82 56,86,334.43
3.	EE, Mahan Canal Division, Sidhi	Construction of Mahan Main Canal from RD 26.870 to 27.170 Km, RD 28.575 to 30.650 Km, RD 30.80 to 35.630 Km, RD 35.730 to 39.890 Km, RD 40.350 to 47.600 Km, Total length - 18.615 Km (Agreement No. 02/2013-14)	12.91 (12.49 per cent above PAC)	8,430.38	3,852.49	3,409.12	443.37	37,38,083.57	42,04,951.25
4.	EE, Lower Sihawal Canal, Division Churhat, Sidhi	Cement Concrete (CC) lining with Paver machine from RD km 15.24 to RD km 75.12 of Sihawal Main Canal with Polyvinyl Chloride (PVC) joints, Low-Density Polyethylene (LDPE) film, C.N.S. Layer with Longitudinal and transverse sleeper as per specification and testing of swelling pressure, permeability test complete with specification, maintenance and repair of canal Earth work and lining work up to three years after completion of work under Bansagar Project" (Agreement No. 02/2011-12)	42.56 (11.15 per cent below PAC)	39,523.435	5,296.723	4,500.12	796.603	3,14,84,486.89	2,79,73,966.60
				20,230.43	4,911.63	4,104.77	806.86	1,63,23,125	1,45,03,096.34
<b>Total Extra Cost</b>									<b>10,75,18,110.00</b>

**Annexure 2.17**

**Calculation of Clubbed rate without additional lead of material**

(Reference: Paragraph 2.2.10, Page No. 52)

Sl. No.	Name of work	Rate Paid				Rate payable			
		SOR item No./ Name	Quantity	Rate	Amount	Item	Quantity	Rate	Amount
		1	2	3	4=2×3	5	6	7	8=6×7
<b>1.</b>	<b>EE, Upper Purwa Canal Division, Rewa (Agreement No. 03/2015-16)</b>								
Balance work of CC lining from RD 0 km to RD 31 km of Purwa Main Canal	Canal lining in bed		10,755.37	3,106.00	3,34,06,179	Canal lining in bed	10,755.37	3,106	3,34,06,179
	Canal lining in slope		32,670.00	3,256.00	10,63,73,520	Canal lining in slope	32,670.00	3,256	10,63,73,520
	Lead for metal		36,911.25	250.20	92,35,195	Lead for metal			
	Lead for sand		18,672.75	428.58	80,02,767	Lead for sand			
	Lead for cement		9,553.50	177.48	16,95,555	Lead for cement			
	<b>Total</b>		<b>43,425</b>		<b>15,87,13,216</b>	<b>Total</b>	<b>43,425</b>		<b>13,97,79,699</b>
			(Quantity of concrete in CC lining in bed and slope)				(Quantity of concrete in CC lining in bed and slope)		
<b>Clubbed rate = 15,87,13,216/43,425 =3,654.88</b>					<b>Clubbed rate = 13,97,79,699/43,425 =3,218.88</b>				
<b>2.</b>	<b>EE, Lower Purwa Canal Division, Satna (Agreement No. 04/2012-13)</b>								
Cement concrete lining by Paver Machine from RD 31.00 km to 90.06 km of Purwa Main Canal with PVC joints, CNS layer	PVC strip		6,52,399.03	96.00	6,26,30,306.88	PVC strip	6,52,399.03	96.00	6,26,30,306.88
	Mechanised trimming		8,27,524.26	10.50	86,89,004.73	Mechanised trimming	8,27,524.26	10.50	86,89,004.73
	Safety ladder		2,170.80	3,219.00	69,87,805.20	Safety ladder	2,170.80	3,219.00	69,87,805.20
	Lead for metal		1,845.18	250.20	4,61,664.04	Lead for metal	1,845.18	250.20	4,61,664.04
	Lead for sand		933.44	570.78	5,32,788.88	Lead for sand	933.44	570.78	5,32,788.88
	Lead for water		2,375.70	27.50	65,331.75	Lead for water	2,375.70	27.50	65,331.75
	Lead for cement		477.57	267.48	1,27,740.42	Lead for cement	477.57	267.48	1,27,740.42
	Free drainage sand filling		22,353.52	105.00	23,47,119.60	Free drainage sand filling	22,353.52	105.00	23,47,119.60
	lead of sand		22,353.52	570.78	1,27,58,942.15	lead of sand	22,353.52	570.78	1,27,58,942.15
	contraction grooves		49,673.72	17.00	8,44,453.24	contraction grooves	49,673.72	17.00	8,44,453.24
	Lining in bed		9,917.87	3,106.00	3,08,04,904.22	Lining in bed	9,917.87	3,106.00	3,08,04,904.22
	lining in slope		61,108.75	3,256.00	19,89,70,090.00	lining in slope	61,108.75	3,256.00	19,89,70,090.00
	Transportation charge of water to prepare mix		71,025.94	27.50	19,53,213.35	Transportation charge of water to prepare mix			
	Lead for metal		60,372.62	250.20	1,51,05,229.52	Lead for metal			
	Lead for sand		30,541.50	570.78	1,74,32,477.37	Lead for sand			
Lead for cement		15,625.86	267.48	41,79,605.03	Lead for cement				



Sl. No.	Name of work	Rate Paid				Rate payable			
		SOR item No./ Name	Quantity	Rate	Amount	Item	Quantity	Rate	Amount
		1	2	3	4=2×3	5	6	7	8=6×7
		<b>Total</b>	<b>73,197.42</b> (Quantity of concrete in CC lining in bed and slope)		<b>36,38,90,676.39</b>	<b>Total</b>	<b>73,197.42</b> (Quantity of concrete in CC lining in bed and slope)		<b>32,52,20,151.11</b>
		<b>Clubbed rate = 36,38,90,676.39/73,197.42= 4,971.36</b>				<b>Clubbed rate = 32,52,20,151.11/73,197.42 = 4,443.05</b>			
<b>3.</b>	<b>EE, Lower Purwa Canal Division, Satna (Agreement No. 01/2016-17)</b>								
Construction of Cement concrete lining of Purwa Main Canal from 90.06 Km to 132.390 Km and Pathanda distributor, tail minor by Paver & manual	Lining in bed		5,525.80	3,106.00	1,71,63,134.80	Lining in bed	5,525.80	3,106	1,71,63,134.80
	Lead for metal		4,696.93	144.20	6,77,297.31	Lead for metal			
	Lead for sand		2,376.09	602.28	14,31,071.49	Lead for sand			
	Lead for cement		1,215.68	267.00	3,24,586.56	Lead for cement			
	Lead for water		5,525.80	5.50	30,391.90	Lead for water			
	<b>Total</b>		<b>5,525.80</b> (Quantity of concrete in CC lining in Bed)		<b>1,96,26,482.05</b>	<b>Total</b>	<b>5,525.80</b> (Quantity of concrete in CC lining in Bed)		<b>1,71,63,134.80</b>
	<b>Clubbed rate= 1,96,26,482.05/5,525.80 = 3,551.79</b>					<b>Clubbed rate=1,71,63,134.80/5,525.80 = 3,106</b>			
	Lining in slope		22,442.61	3,256.00	7,30,73,138.16	Lining in slope	22,442.61	3,256.00	7,30,73,138.16
	Lead for metal		19,076.22	144.20	27,50,790.92	Lead for metal			
	Lead for sand		9,650.32	602.28	58,12,194.73	Lead for sand			
Lead for cement		4,937.37	267.00	13,18,277.79	Lead for cement				
Lead for water		22,442.61	5.50	2,33,434.00	Lead for water				
<b>Total</b>		<b>22,442.61</b> (Quantity of concrete in CC lining in slope)	<b>3,706.69</b>	<b>8,31,87,835.60</b>	<b>Total</b>	<b>22,442.61</b> (Quantity of concrete in CC lining in slope)		<b>7,30,73,138.16</b>	
<b>Clubbed Rate = 8,31,87,835.60/22,442.61 = 3,706.69</b>					<b>Clubbed Rate = 7,30,73,138.16/22,442.61 = 3,256.00</b>				
<b>4.</b>	<b>EE, Mahan Canal, Sidhi (Agreement No. 02/2013-14)</b>								
Mahan Main Canal from RD 26.870 to 27.170 km, RD 28.575 to 30.650 km, RD 30.80 to 35.630 km, RD 35.730 to	Canal lining in bed		4,188.37	3,295.00	1,38,00,679	Canal lining in bed	4,188.37	3295	1,38,00,679
	Canal lining in slope		13,319.03	3,445.00	4,58,84,058	Canal lining in slope	13,319.03	3445	4,58,84,058
	Lead for metal		14,881.29	223.70	33,28,945	Lead for metal			
	Lead for sand		7,528.18	309.78	23,32,080	Lead for sand			
	Lead for cement		3,851.63	545.58	21,01,371	Lead for cement			
	<b>Total</b>		<b>17,507.40</b> (Quantity of concrete in CC lining in bed and slope)		<b>6,74,47,133</b>	<b>Total</b>	<b>17,507.40</b> (Quantity of concrete in CC lining in bed and slope)		<b>5,96,84,738</b>

Sl. No.	Name of work	Rate Paid				Rate payable								
		SOR item No./ Name	Quantity	Rate	Amount	Item	Quantity	Rate	Amount					
		1	2	3	4=2×3	5	6	7	8=6×7					
	39.890 km, RD 40.350 to 47.600 km, Total length - 18.615 km	<b>Clubbed rate =6,74,47,133/17,507.40 = 3,852.49</b>				<b>Clubbed rate =5,96,84,738/17,507.40 = 3,409.11</b>								
<b>5.</b>	<b>EE, Lower Sihawal Canal, Division Churhat, Sidhi</b>													
		SOR item no. 2526	640098.95	10.5	67,21,038.975	SOR item no. 2526	640098.95	10.5	67,21,038.98					
		SOR item no. 2507(B)(a)	4365.39	3036	132,53,324.04	SOR item no. 2507(B)(a)	4365.39	3036	132,53,324.04					
		SOR item no. 2507(B)(b)	8006.918	3436	275,11,770.25	SOR item no. 2507(B)(b)	8006.918	3436	275,11,770.25					
		SOR item no. 2510(B)	893.292	3219	28,75,506.95	SOR item no. 2510(B)	893.292	3219	28,75,506.95					
		SOR item no. 2520	732917.59	28	205,21,692.52	SOR item no. 2520	732917.59	28	205,21,692.52					
		SOR item no. 2525(I)	10986.188	3106	341,23,099.93	SOR item no. 2525(I)	10986.188	3106	341,23,099.93					
		SOR item no. 2525(II)	41906.611	3256	1364,47,925.42	SOR item no. 2525(II)	41906.611	3256	1364,47,925.42					
		SOR item no. 2527	579608.46	96	556,42,412.16	SOR item no. 2527	579608.46	96	556,42,412.16					
		SOR item no. 2514(a)	36700.92	17	6,23,915.64	SOR item no. 2514(a)	36700.92	17	6,23,915.64					
	For 39,523.435 cum of CC, (executed without LDPE)	Reach 15.24 km to 48.775 km	Lead of Concrete	66,158.398	27.50	18,19,355.95	<b>Not payable</b>							
			Lead of Metal	32,668.348	471.8	154,12,926.59								
			Lead of Sand	16,526.341	526.680	87,04,093.28								
			Lead of Cement	8,455.337	507.780	42,93,451.02								
		Reach 48.775 km to 75.12 km	Lead of Metal	23,566.290	533.400	125,70,259.09								
			Lead of Sand	11,921.770	570.780	68,04,707.88								
			Lead of Cement	6,099.510	507.780	30,97,209.19								
			<b>Total</b>	<b>66,158.398</b> (Quantity of concrete in CC lining in Bed)		<b>35,04,22,688.9</b>					<b>Total</b>	<b>66,158.398</b> (Quantity of concrete in CC lining in Bed)		<b>29,77,20,685.88</b>
			<b>Clubbed rate= 35,04,22,688.9/66,158.398 = 5,296.72</b>								<b>Clubbed rate= 29,77,20,685.87/66,158.398 = 4,500.12</b>			
		For 20,230.34 cum of CC(executed	SOR item no. 2525(i)	6,015.00	3,106.00	1,86,82,590.00					SOR item no. 2525(i)	6,015.00	3,106.00	1,86,82,590.00
		SOR item no. 2525(ii)	13,400.53	3,256.00	4,36,32,125.68	SOR item no. 2525(ii)	13,400.53	3,256.00	4,36,32,125.68					
		SOR item no. 2510(B)	814.81	3,219.00	26,22,879.83	SOR item no. 2510(B)	814.81	3,219.00	26,22,873.39					

Sl. No.	Name of work	Rate Paid				Rate payable				
		SOR item No./ Name	Quantity	Rate	Amount	Item	Quantity	Rate	Amount	
		1	2	3	4=2×3	5	6	7	8=6×7	
	without LDPE)	SOR item no. 2527	1,60,261.18	96.00	1,53,85,073.28	SOR item no. 2527	1,60,261.18	96.00	1,53,85,073.28	
		SOR item no. 2526	2,58,873.73	10.50	27,18,174.17	SOR item no. 2526	2,58,873.73	10.50	27,18,174.17	
	<b>Lead</b>					<b>Not payable</b>				
	Water (One km)	20,230.34	28.00	5,66,449.52						
	Metal (79 km)	18,895.79	471.80	89,15,033.72						
	Sand (106 km)	8,699.05	526.68	45,81,614.07						
	Cement (100 km)	4,450.68	507.78	22,59,963.75						
	<b>Total</b>		<b>20,230.34</b>		<b>9,93,63,904.02</b>	<b>Total</b>		<b>20,230.34</b>		<b>8,30,40,836.52</b>
			(Quantity of concrete in CC lining in Bed)					(Quantity of concrete in CC lining in Bed)		
	<b>Clubbed rate= 9,93,63,904.0/20,230.34= 4,911.62</b>					<b>Clubbed rate=8,30,40,836.52/20,230.34 = 4,104.76</b>				