



CONTRACT SECTION, PHQ NOONMATI

DATE: 26<sup>TH</sup> OCTOBER 2022

**CORRIGENDUM – 3 FOR OIL’S GEM TENDER NO. GEM/2022/B/2573361 dated: 24-09-2022**

- I. THIS CORRIGENDUM IS BEING ISSUED TO INCORPORATE THE BORE LOG DATA PERTAINING TO HIRING THE SERVICES FOR DESIGN, DETAIL ENGINEERING & INSTALLATION OF 355.6 MM OD PIPELINE BY HORIZONTAL DIRECTIONAL DRILLING METHOD AT RIVER MAHANANDA II AS BELOW:
- II. ALL OTHER TERMS AND CONDITIONS SHALL REMAIN UNCHANGED IN THE ABOVE TENDER

# SWAYIN & ASSOCIATES

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## BORELOG DATA SHEET

PROJECT :- *Oil India* BORE HOLE NO. :- *15*

DATE OF START :- *06-08-09*

LOCATION :- *mahananda* SHEET NO. :- *01*

DATE OF COMPL :- *08-08-09*

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		clayey sand	0.50	DS	01			
1.00			- do -	1.00	SPT	01	2+3+4		
2.00				1.60	UDS	01	7		
3.00	3.10		core sand with	2.50	SPT	02	3+5+6		
4.00			gravel and pebbles	3.00	UDS	02	11		
5.00				3.60	DS	02			
6.00			- do -	4.00	SPT	03	7+9+12		
7.00				5.00	DS	03	21	4.70	
8.00			- do -	5.50	SPT	04	8+10+15		
9.00				6.50	DS	04	25		
10.00			- do -	7.00	SPT	05	10+15+19		
11.00				8.00	DS	05	34		
12.00			- do -	8.50	SPT	06	10+18+23		
13.00				9.50	DS	06	41		
14.00			- do -	10.00	SPT	07	12+20+24		
15.00				11.00	DS	07	44		
			- do -	11.50	SPT	08	13+22+25		
				12.50	DS	08	47		
			- do -	13.00	SPT	09	15+24+28		
				14.00	DS	09	52		
				14.50	SPT	10	15+26+30		
							56		

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## BORELOG DATA SHEET

PROJECT :- *oil India* BORE HOLE NO. :- *15*

LOCATION : *mahabandya* SHEET NO. :- *02*

DATE OF START :-

DATE OF COMPL :-

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		continue starta	15.50	DS	10			
16.00			— do —	16.00	SPT	11	19+29+33		
17.00				17.00	DS	11	62		
18.00			— do —	17.50	SPT	12	20+31+35		
19.00				18.50	DS	12	66		
20.00				19.00	SPT	13	22+35+38		
21.00							73		
22.00	20.10		B'H Terminated at the depth of 20.10 mtr	20.10	SPT	14	26+39+43		
23.00							82		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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## BORELOG DATA SHEET

PROJECT :- *oil godia* BORE HOLE NO. :- *14*

DATE OF START :- *05.08.09*

LOCATION :- *mahananda* SHEET NO. :- *01*

DATE OF COMPL :- *08.08.09*

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			W. L. S. 10. mtr	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		Filled-up	0.50	DS	01			
1.00			clayey sand	1.00	SPT	01	2+3+4		
2.00				1.60	UDS	01	7		
3.00			- do -	2.50	SPT	02	3+4+5		
4.00				3.00	UDS	02	9		
5.00			- do -	4.00	SPT	03	3+4+6		
6.00				5.00	DS	02	10		A
7.00	7.40			5.50	SPT	04	4+6+8		ani. 4.30
8.00			- do -	6.50	DS	03	14		
9.00			core sand	7.00	SPT	05	5+7+9		
10.00			with gravels	8.00	DS	04	16		
11.00			and pebbles	8.50	SPT	06	8+12+13		
12.00				9.50	DS	05	25		
13.00			- do -	10.00	SPT	07	9+14+15		
14.00				11.00	DS	06	29		
15.00			- do -	11.50	SPT	08	11+15+20		
				12.50	DS	07	35		
				13.00	SPT	09	13+18+22		
				14.00	DS	08	40		
				14.50	SPT	10	15+22+26		
							48		

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## BORELOG DATA SHEET

PROJECT :- *oil india* BORE HOLE NO. :- *12*  
LOCATION :- *mahananda* SHEET NO. :- *02*

DATE OF START :-

DATE OF COMPL :-

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		continue starta	15.50	DS	09			
16.00			— do —	16.00	SPT	11	18+24+30		
17.00				17.00	DS	10	54		
18.00			— do —	17.50	SPT	12	19+26+33		
19.00				18.50	DS	11	59		
20.00	20		— do —	19.00	SPT	13	22+29+36		
21.00			B.H. Terminated at the depth of 20.00 mtr	20.00	SPT	14	65		
22.00							24+33+39		
23.00							72		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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*[Signature]*  
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## BORELOG DATA SHEET

PROJECT :- *oil gndia* BORE HOLE NO. :- *13*

DATE OF START :- *05.08.09*

LOCATION :- *mahananda* SHEET NO. :- *01*

DATE OF COMPL :- *06.08.09*

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		<u>TOP level</u> water						
1.00									
2.00									
3.00									
4.00	4.20		<u>Bed level</u> fine to medium	4.60	DS	01			
5.00			sand	5.00	SPT	01	3+5+8		
6.00	5.80		core sand with	5.60	UDS	01	13		
			gravels and pebbles	6.50	SPT	02	4+6+10		
7.00				7.10	UDS	02	16		
8.00				8.00	SPT	03	6+9+14		
9.00				9.00	DS	02	23		
				9.50	SPT	04	8+13+18		
10.00			— A <sub>0</sub> —	10.50	DS	03	31		
11.00				11.00	SPT	05	10+16+21		
12.00				12.00	DS	04	37		
				12.50	SPT	06	12+20+26		
13.00			— A <sub>0</sub> —	13.50	DS	05	46		
14.00				14.00	SPT	07	12+22+28		
15.00				15.00	DS	06	50		

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## BORELOG DATA SHEET

PROJECT :- *Oil Grid* BORE HOLE NO. :- *13*  
LOCATION :- *maharaja* SHEET NO. :- *02*

DATE OF START :-  
DATE OF COMPL :-  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			N VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		<i>Start continue</i>	15.00	DS	06			
16.00				15.50	SPT	08	<i>15+25+32</i>		
17.00			<i>- do -</i>	16.50	DS	07	<i>57</i>		
18.00				17.00	SPT	09	<i>16+26+34</i>		
19.00			<i>- do -</i>	18.00	DS	08	<i>60</i>		
20.00				18.50	SPT	10	<i>18+30+38</i>		
21.00				19.50	DS	09	<i>68</i>		
22.00				20.00	SPT	11	<i>20+32+40</i>		
23.00			<i>- do -</i>	21.00	DS	10	<i>72</i>		
24.00				21.50	SPT	12	<i>20+34+42</i>		
25.00				22.50	DS	11	<i>76</i>		
26.00			<i>- do -</i>	23.00	SPT	13	<i>23+35+46</i>		
27.00				24.30	SPT	14	<i>81</i>		
28.00	24.30		<i>B.H Terminated</i>				<i>25+38+48</i>		
29.00			<i>at the depth</i>				<i>86</i>		
30.00			<i>of 24.30 mtr</i>						
31.00									
32.00									
33.00									
34.00									
35.00									

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**BORELOG DATA SHEET**

PROJECT :- oil india BORE HOLE NO. :- 12

DATE OF START :- 03.08.09

LOCATION :- maharanda SHEET NO. :- 01

DATE OF COMPL :- 05.08.09

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		Top level						
1.00			water						
2.00			do						
3.00	3.10		Bed level						
4.00			Fine to medium	3.50	DS	01			
5.00	4.80		sand	4.00	SPT	01	3+3+5		
6.00			core sand with	4.70	UDS	01	8		
7.00			gravels and	5.50	SPT	02	3+8+9		
8.00			pebbles	6.00	UDS	02	17		
9.00				6.60	DS	02			
10.00				7.00	SPT	03	6+10+12		
11.00			do	8.00	DS	03	22		
12.00				8.50	SPT	04	9+13+18		
13.00				9.50	DS	04	31		
14.00				10.00	SPT	05	11+16+22		
15.00				11.00	DS	05	38		
				11.50	SPT	06	12+18+25		
			do	12.50	DS	06	43		
				13.00	SPT	07	14+20+28		
				14.00	DS	07	48		
				14.50	SPT	08	15+22+30		
							52		

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## BORELOG DATA SHEET

PROJECT :- *oil gnd* BORE HOLE NO. :- 12  
LOCATION :- *maharaja* SHEET NO. :- 02

DATE OF START :-  
DATE OF COMPL :-  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		starta continue	15.50	DS	08			
16.00				16.00	SPT	09	18+25+32		
17.00			— do —	17.00	DS	09	57		
18.00				17.50	SPT	10	18+27+35		
19.00				18.50	DS	10	62		
20.00			— do —	19.00	SPT	11	20+30+38		
21.00				20.00	DS	11	68		
22.00				20.50	SPT	12	22+33+40		
23.00			— do —	21.50	DS	12	73		
24.00				22.00	SPT	13	23+35+43		
25.00				23.20	SPT	14	78		
26.00	23.20		B.H Terminated at the depth of 23.20 mtr				25+38+45		
27.00							83		
28.00									
29.00									
30.00									

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## BORELOG DATA SHEET

PROJECT :- *oil india* BORE HOLE NO. :- *09*  
LOCATION : *mahananda* SHEET NO. :- *01*

DATE OF START :- *2.08.09*  
DATE OF COMPL :- *3.08.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.		
0.00	0.00		<i>fine to medium</i>	0.60	DS	01		
1.00			<i>sand</i>	1.00	SPT	01	<i>3+4+5</i>	
2.00			<i>- do -</i>	1.50	UDS	01	<i>9</i>	
3.00				2.50	SPT	02	<i>3+5+8</i>	
4.00	3.40		<i>core sand with</i>	3.00	UDS	02	<i>13</i>	
5.00			<i>gravels and</i>	3.60	DS	02		
6.00			<i>pebbles</i>	4.00	SPT	03	<i>6+9+12</i>	
7.00				5.00	DS	03	<i>21</i>	
8.00			<i>- do -</i>	5.50	SPT	04	<i>8+12+16</i>	
9.00				6.50	DS	04	<i>28</i>	
10.00			<i>- do -</i>	7.00	SPT	05	<i>9+15+19</i>	
11.00				8.00	DS	05	<i>34</i>	
12.00			<i>- do -</i>	8.50	SPT	06	<i>11+18+23</i>	
13.00				9.50	DS	06	<i>41</i>	
14.00			<i>- do -</i>	10.00	SPT	07	<i>11+20+25</i>	
15.00				11.00	DS	07	<i>45</i>	
				11.50	SPT	08	<i>13+23+28</i>	
			<i>- do -</i>	12.50	DS	08	<i>51</i>	
				13.00	SPT	09	<i>15+24+30</i>	
			<i>- do -</i>	14.00	DS	09	<i>54</i>	
				14.50	SPT	10	<i>18+25+32</i>	

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## BORELOG DATA SHEET

PROJECT :- *oil gndia* BORE HOLE NO. :- *09*  
LOCATION :- *mahananda* SHEET NO. :- *02*  
*11*

DATE OF START :-  
DATE OF COMPL :-  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		core sand with gravels and pebbles	15.50	DS	10			
16.00				16.00	SPT	11	18+26+34		
17.00				17.00	DS	11	60		
18.00				17.50	SPT	12	20+29+38		
19.00			do -	18.50	DS	12	67		
20.00				19.00	SPT	13	23+32+41		
21.00				20.10	SPT	14	73		
22.00	20.10		B.H. Terminated at the depth of 20.10 mtr				28+35+43		
23.00							78		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									
31.00									

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## BORELOG DATA SHEET

PROJECT :- *oil gndra* BORE HOLE NO. :- *10*  
LOCATION :- *mahananda.ji* SHEET NO. :- *01*

DATE OF START :- *02.08.09*  
DATE OF COMPL :- *03.08.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			G.W. OBSR	REMARKS
				DEPTH	TYPE	NO.		
0.00	0.00		<i>Fine to medium sand</i>	0.40	DS	01		
1.00				1.00	SPT	01	<i>2+3+4</i>	
2.00			<i>- do -</i>	1.60	UDS	01	<i>7</i>	
3.00				2.50	SPT	02	<i>3+5+6</i>	
4.00	3.60		<i>core sand with gravels and pebbles</i>	3.00	UDS	02	<i>11</i>	
5.00				3.60	DS	02		
6.00				4.00	SPT	03	<i>7+10+12</i>	
7.00			<i>- do -</i>	5.00	DS	03	<i>22</i>	
8.00				5.50	SPT	04	<i>8+13+15</i>	
9.00				6.50	DS	04	<i>28</i>	
10.00				7.00	SPT	05	<i>9+16+18</i>	
11.00			<i>- do -</i>	8.00	DS	05	<i>34</i>	
12.00				8.50	SPT	06	<i>12+18+23</i>	
13.00				9.50	DS	06	<i>41</i>	
14.00			<i>- do -</i>	10.00	SPT	07	<i>15+23+26</i>	
15.00				11.00	DS	07	<i>49</i>	
				11.50	SPT	08	<i>18+25+28</i>	
			<i>- do -</i>	12.50	DS	08	<i>53</i>	
				13.00	SPT	09	<i>20+26+30</i>	
				14.00	DS	09	<i>56</i>	
				14.50	SPT	10	<i>20+28+33</i>	

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## BORELOG DATA SHEET

PROJECT :- *oil gndra* BORE HOLE NO. :- *10*  
LOCATION : *mahananda* SHEET NO. :- *02*

DATE OF START :-  
DATE OF COMPL :-  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		starta continue	15.50	DS	10			
16.00			— do —	16.00	SPT	11	23+33+36		
17.00				17.00	DS	11	69		
18.00			— do —	17.50	SPT	12	25+35+38		
19.00				18.50	DS	12	73		
20.00			— do —	19.00	SPT	13	25+38+40		
21.00	20.10			20.10	SPT	14	78		
22.00			B.H. Terminated at the depth of 20.10 mtr				29+41+43		
23.00							84		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									
31.00									

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## BORELOG DATA SHEET

PROJECT :- oil gndia BORE HOLE NO. :- 11

DATE OF START :- 03-08-09

LOCATION :- mahananda SHEET NO. :- 01

DATE OF COMPL :- 04-08-09

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.		
0.00	0.00		Fine to medium sand	0.60	DS	01		
1.00			— do —	1.00	SPT	01	2+3+5	
2.00			— do —	1.60	UDS	01	8	
3.00				2.50	SPT	02	5+6+8	
4.00	3.50		core sand with gravels and pebbles	3.00	UDS	02	14	
5.00				3.60	DS	02		
6.00			— do —	4.00	SPT	03	8+10+13	
7.00				5.00	DS	03	23	
8.00			— do —	5.50	SPT	04	9+13+15	
9.00				6.50	DS	04	28	
10.00			— do —	7.00	SPT	05	10+15+18	
11.00				8.00	DS	05	33	
12.00			— do —	8.50	SPT	06	12+18+21	
13.00				9.50	DS	06	39	
14.00			— do —	10.00	SPT	07	12+23+25	
15.00				11.00	DS	07	48	
			— do —	11.50	SPT	08	16+25+30	
				12.50	DS	08	55	
			— do —	13.00	SPT	09	19+28+33	
				14.00	DS	09	61	
				14.50	SPT	10	19+30+35	
							65	

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PHONE : (0674) 2503358, 2500115, 2512571  
Web Site : www.swayinassociates.com

## BORELOG DATA SHEET

PROJECT :- *oil gndia* BORE HOLE NO. :- *11*

LOCATION :- *maharanda* SHEET NO. :- *02*

DATE OF START :-

DATE OF COMPL :-

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		continue starta	15.50	DS	10			
16.00			- do -	16.00	SPT	11	21+32+37		
17.00				17.00	DS	11	69		
18.00			- do -	17.50	SPT	12	25+35+40		
19.00				18.50	DS	12	75		
20.00			- do -	19.00	SPT	13	29+38+42		
21.00				20.10	SPT	14	80		
22.00	20.10		B.H. Terminated at the depth of 20.10 mtr				31+39+43		
23.00							82		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									
31.00									
32.00									
33.00									
34.00									
35.00									

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## BORELOG DATA SHEET

PROJECT :- *oil gndia* BORE HOLE NO. :- *08*  
LOCATION :- *mahananda* SHEET NO. :- *01*

DATE OF START :- *31.07.09*  
DATE OF COMPL :- *01.08.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		<i>Fine to medium sand</i>	0.50	DS	01			
1.00				1.00	SPT	01	2+3+5		
2.00			<i>- do -</i>	1.60	UDS	01	8		
3.00				2.50	SPT	02	3+5+8		
4.00	3.50		<i>core sand with gravels and pebbles</i>	3.10	UDS	02	13		
5.00				3.70	DS	02			
6.00			<i>- do -</i>	4.00	SPT	03	8+10+12		
7.00				5.00	DS	03	22		
8.00			<i>- do -</i>	5.50	SPT	04	8+13+15		
9.00				6.50	DS	04	28		
10.00			<i>- do -</i>	7.00	SPT	05	10+15+18		
11.00				8.00	DS	05	33		
12.00			<i>- do -</i>	8.50	SPT	06	11+20+23		
13.00				9.50	DS	06	43		
14.00			<i>- do -</i>	10.00	SPT	07	11+23+26		
15.00				11.00	DS	07	49		
				11.50	SPT	08	13+25+26		
				12.50	DS	08	51		
			<i>- do -</i>	13.00	SPT	09	14+26+28		
				14.00	DS	09	54		
				14.50	SPT	10	16+26+30		
							56		

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## BORELOG DATA SHEET

PROJECT :- *oil gndra* BORE HOLE NO. :- *08*  
LOCATION :- *mahananda* SHEET NO. :- *02*

DATE OF START :- *31.7.09*  
DATE OF COMPL :- *1.8.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		continue starta	15.50	DS	10			
16.00			- do -	16.00	SPT	11	22+29+34		
17.00				17.00	DS	11	63		
18.00			- do -	17.50	SPT	12	23+31+36		
19.00				18.50	DS	12	67		
20.00			- do -	19.00	SPT	13	24+33+40		
20.10	20.10			20.10	SPT	14	73		
21.00			B.H terminated at the depth of 20.10 mtr				26+35+45		
22.00							80		
23.00									
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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## BORELOG DATA SHEET

PROJECT :- *Oil India* BORE HOLE NO. :- *07*

DATE OF START :- *31.07.09*

LOCATION :- *mahanadi* SHEET NO. :- *01*

DATE OF COMPL :- *01.08.09*

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			N <sup>o</sup> VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		<i>Fine to medium sand</i>	0.50	DS	01			
1.00				1.00	SPT	01	<i>2+3+5</i>		
2.00				1.60	UDS	01	<i>8</i>		
			<i>- do -</i>	2.50	SPT	02	<i>3+5+6</i>		
3.00	3.40		<i>core sand with gravel and pebbles</i>	3.00	UDS	02	<i>11</i>		
4.00				3.50	DS	02			
5.00				4.00	SPT	03	<i>6+9+12</i>		
			<i>- do -</i>	5.00	DS	03	<i>21</i>		
6.00				5.50	SPT	04	<i>9+12+15</i>		
7.00				6.50	DS	04	<i>27</i>		
			<i>- do -</i>	7.00	SPT	05	<i>10+15+19</i>		
8.00				8.00	DS	05	<i>34</i>		
9.00				8.50	SPT	06	<i>13+18+25</i>		
10.00			<i>- do -</i>	9.50	DS	06	<i>43</i>		
11.00				10.00	SPT	07	<i>14+21+28</i>		
12.00				11.00	DS	07	<i>49</i>		
			<i>- do -</i>	11.50	SPT	08	<i>15+23+33</i>		
13.00				12.50	DS	08	<i>56</i>		
14.00				13.00	SPT	09	<i>18+28+35</i>		
			<i>- do -</i>	14.00	DS	09	<i>60</i>		
15.00				14.50	SPT	10	<i>19+28+38</i>		
							<i>66</i>		

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## BORELOG DATA SHEET

PROJECT :- *oil india* BORE HOLE NO. :- *07*  
LOCATION : *mahananda* SHEET NO. :- *02*

DATE OF START :- *31.7.09*  
DATE OF COMPL :- *1.8.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		starta continue	1550	DS	10			
16.00			- do -	1600	SPT	11	25+33+40		
17.00				1700	DS	11	73		
18.00			- do -	1750	SPT	12	28+35+42		
19.00				1850	DS	12	77		
20.00			- do -	1900	SPT	13	28+36+44		
21.00	20.00			2000	SPT	14	80		
22.00			B.H terminated at the depth of 20.00 mtr				30+38+45		
23.00							83		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									
31.00									

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## BORELOG DATA SHEET

PROJECT : *oil gndia* BORE HOLE NO. :- 06  
LOCATION :- *maharanga* SHEET NO. :- 01  
*IT*

DATE OF START :- 29.07.07  
DATE OF COMPL :- 30.07.07  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G.W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		<i>Fine to medium sand</i>	0.50	DS	01			
1.00				1.00	SPT	01	2+3+5		
			<i>- do -</i>	1.60	UDS	01	8		
2.00				2.50	SPT	02	3+5+8		
3.00	3.30		<i>core sand with gravels and pebbles</i>	3.00	UDS	02	13		
4.00				3.70	DS	02			
				4.00	SPT	03	5+9+10		
5.00			<i>- do -</i>	5.00	DS	03	19		
				5.50	SPT	04	10+14+18		
6.00			<i>- do -</i>	6.50	DS	04	32		
				7.00	SPT	05	10+18+22		
8.00			<i>- do -</i>	8.00	DS	05	40		
				8.50	SPT	06	11+20+23		
9.00			<i>- do -</i>	9.50	DS	06	43		
				10.00	SPT	07	13+22+25		
10.00			<i>- do -</i>	11.00	DS	07	47		
				11.50	SPT	08	15+24+28		
12.00			<i>- do -</i>	12.50	DS	08	52		
				13.00	SPT	09	15+25+36		
13.00			<i>- do -</i>	14.00	DS	09	55		
				14.50	SPT	10	18+30+33		
15.00							63		

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## BORELOG DATA SHEET

PROJECT :- oil grid  
LOCATION :- maharandap  
BORE HOLE NO. :- 06  
SHEET NO. :- 02

DATE OF START :- 29.7.09  
DATE OF COMPL :- 30.7.09  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		Starta continue	15.50	DS	10			
16.00			- do -	16.00	SPT	11	20+33+38		
17.00				17.00	DS	11	71		
18.00			- do -	17.50	SPT	12	25+35+40		
19.00				18.50	DS	12	75		
20.00			- do -	19.00	SPT	13	26+38+42		
21.00				20.05	SPT	14	80		
22.00	20.05		B.H. Terminated at the depth of 20.05 mtr				28+40+43		
23.00							83		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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## BORELOG DATA SHEET

PROJECT :- *oil india* BORE HOLE NO. :- *05*  
LOCATION :- *mahananda* SHEET NO. :- *01*

DATE OF START :- *28.07.09*  
DATE OF COMPL :- *29.07.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.		
0.00	0.00		clay sand	0.50	DS	01		
1.00			- do -	1.00	SPT	01	2+3+4	
2.00			- do -	1.60	UDS	01	7	
3.00	3.20		core sand with	2.50	SPT	02	3+5+6	
4.00			gravels and pebbles	3.10	UDS	02	11	
5.00			- do -	4.00	SPT	03	6+8+10	
6.00			- do -	4.50	DS	02	18	
7.00			- do -	5.50	SPT	04	9+12+13	
8.00			- do -	6.00	DS	03	25	
9.00			- do -	7.00	SPT	05	9+15+18	
10.00			- do -	7.50	DS	04	33	
11.00			- do -	8.50	SPT	06	11+16+20	
12.00			- do -	9.00	DS	05	36	
13.00			- do -	10.00	SPT	07	13+18+22	
14.00			- do -	10.50	DS	06	40	
15.00			- do -	11.50	SPT	08	15+21+25	
			- do -	12.00	DS	07	46	
			- do -	13.00	SPT	09	15+24+29	
			- do -	13.50	DS	08	53	
			- do -	14.50	SPT	10	18+26+32	
			- do -				58	

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## BORELOG DATA SHEET

PROJECT :- Oil India BORE HOLE NO. :- 05

DATE OF START :- 22.7.09

LOCATION : Mahananda SHEET NO. :- 02

DATE OF COMPL :- 29.7.09

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		Starta continue	15.00	DS	09			
16.00			- do -	16.00	SPT	11	19+30+35		
17.00				16.50	DS	10	65		
18.00			- do -	17.50	SPT	12	20+32+39		
19.00				18.00	DS	11	71		
20.00			- do -	19.00	SPT	13	23+36+42		
21.00				20.20	SPT	14	78		
22.00	20.20		B.H. Terminated at the depth of 20.20 mtr				25+37+45		
23.00							82		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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## BORELOG DATA SHEET

PROJECT :- *oil gndia* BORE HOLE NO. :- *04*  
LOCATION :- *Mahananda-11* SHEET NO. :- *01*

DATE OF START :- *26.07.09*  
DATE OF COMPL :- *27.07.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G.W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		<i>clay sand</i>	0.50	DS	01			
1.00				1.00	SPT	01	<i>2+4+4</i>		
2.00			<i>- do -</i>	1.70	UDS	01	<i>8</i>		
3.00				2.50	SPT	02	<i>3+4+6</i>		
4.00				3.20	UDS	02	<i>10</i>		
5.00	<i>4.20</i>		<i>core sand with gravel and pebbles</i>	4.00	SPT	03	<i>7+9+12</i>		
6.00				4.80	DS	02	<i>21</i>		
7.00				5.50	SPT	04	<i>10+15+18</i>		
8.00				6.00	DS	03	<i>33</i>		
9.00				7.00	SPT	05	<i>12+16+19</i>		
10.00			<i>- do -</i>	7.50	DS	04	<i>35</i>		
11.00				8.50	SPT	06	<i>13+19+23</i>		
12.00				9.00	DS	05	<i>41</i>		
13.00			<i>- do -</i>	10.00	SPT	07	<i>16+22+26</i>		
14.00				10.50	DS	06	<i>48</i>		
15.00				11.50	SPT	08	<i>16+23+28</i>		
			<i>- do -</i>	12.00	DS	07	<i>57</i>		
				13.00	SPT	09	<i>18+24+30</i>		
				13.50	DS	08	<i>54</i>		
				14.50	SPT	10	<i>20+25+32</i>		
							<i>57</i>		

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## BORELOG DATA SHEET

PROJECT :- oil gndia BORE HOLE NO. :- 09

LOCATION :- maharanda, SHEET NO. :- 02

DATE OF START :- 26.7.09

DATE OF COMPL :- 27.7.09

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		starta continue	15.00	DS	09			
16.00				16.00	SPT	11	22+28+33		
17.00				16.50	DS	10	61		
18.00				17.50	SPT	12	25+30+38		
19.00				18.00	DS	11	68		
20.00				19.00	BIF	13	28+35+39		
21.00				19.50	DS	12	74		
22.00	20.05		B.H Terminated at the depth of 20.05 mtrs	20.05	SPT	14	31+38+45		
23.00							83		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									
31.00									
32.00									
33.00									
34.00									
35.00									

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## BORELOG DATA SHEET

PROJECT :- oil gndia BORE HOLE NO. :- 03  
LOCATION : maharanda, SHEET NO. :- 01

DATE OF START :- 25.07.09  
DATE OF COMPL :- 26.07.09  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		clay sand	0.50	DS	01			
1.00				1.00	SPT	01	2+3+5		
2.00			- do -	1.60	UDS	01	8		
3.00				2.50	SPT	02	3+5+7		
4.00	4.30		core sand with gravel and pebbles	3.20	UDS	02	12		
5.00				4.00	SPT	03	7+9+12		
6.00				4.50	DS	02	21		
7.00			- do -	5.50	SPT	04	10+14+15		
8.00				6.00	DS	03	29		
9.00			- do -	7.00	SPT	05	11+16+18		
10.00				7.50	DS	04	34		
11.00				8.50	SPT	06	12+18+20		
12.00			- do -	9.00	DS	05	38		
13.00				10.00	SPT	07	13+20+22		
14.00			- do -	10.50	DS	06	42		
15.00				11.50	SPT	08	15+23+25		
				12.00	DS	07	48		
			- do	13.00	SPT	09	18+25+29		
				13.50	DS	08	54		
				14.50	SPT	10	18+28+31		
							59		

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## BORELOG DATA SHEET

PROJECT :- *oil gndia* BORE HOLE NO. :- 03  
LOCATION :- *mahananda* SHEET NO. :- 02

DATE OF START :- 25.7.09  
DATE OF COMPL :- 26.7.09  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		continue starta	15.00	DS	09			
16.00			- do -	16.00	SPT	11	20+30+35		
17.00				16.50	DS	10	65		
18.00			- do -	17.50	SPT	12	23+36+38		
19.00				18.00	DS	11	74		
20.00			- do -	19.00	SPT	13	24+38+40		
21.00				20.00	DS	12	78		
22.00	20.20			20.20	SPT	14	26+40+42		
23.00			B.H terminated at the depth of 20.20 mtr				82		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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## BORELOG DATA SHEET

PROJECT :- *oil gndia* BORE HOLE NO. :- *02*  
LOCATION :- *mahananda* SHEET NO. :- *01*

DATE OF START :- *23.07.09*

DATE OF COMPL :- *24.07.09*

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		<i>clay sand</i>	0.50	DS	01			
1.00				1.00	SPT	01	<i>2+3+5</i>		
				1.70	UDS	01	<i>8</i>		
2.00			<i>- do -</i>	2.50	SPT	02	<i>3+4+6</i>		
				3.10	UDS	02	<i>10</i>		
3.00				4.00	SPT	03	<i>6+10+12</i>		
4.00				4.50	DS	02	<i>22</i>		
	<i>4-60</i>		<i>core sand with gravels and pebbles</i>	5.50	SPT	04	<i>9+12+15</i>		
5.00				6.00	DS	03	<i>27</i>		
6.00				7.00	SPT	05	<i>11+14+18</i>		
			<i>- do -</i>	7.50	DS	04	<i>32</i>		
8.00				8.50	SPT	06	<i>12+15+20</i>		
			<i>- do -</i>	9.00	DS	05	<i>35</i>		
9.00				10.00	SPT	07	<i>13+16+22</i>		
				10.50	DS	06	<i>38</i>		
10.00				11.50	SPT	08	<i>15+19+25</i>		
			<i>- do -</i>	12.00	DS	07	<i>44</i>		
11.00				13.00	SPT	09	<i>15+22+28</i>		
			<i>- do -</i>	13.50	DS	08	<i>50</i>		
12.00				14.50	SPT	10	<i>17+25+30</i>		
13.00							<i>55</i>		
14.00									
15.00									

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*12/8/09*

For SWAYIN & ASSOCIATES

*[Signature]*



# SWAYIN & ASSOCIATES

77, SATYA NAGAR, BHUBANESWAR  
PHONE : (0674) 2503358, 2500115, 2512571  
Web Site : www.swayinassociates.com

## BORELOG DATA SHEET

PROJECT :- oil gralia BORE HOLE NO. :- 02  
LOCATION :- Mahasandla,, SHEET NO. :- 02

DATE OF START :- 23.7.09  
DATE OF COMPL :- 24.7.09  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		starta continue	15.00	DS	09			
16.00				16.00	SPT	11	19+30+35		
				16.50	DS	10	65		
17.00			- d b -	17.50	SPT	12	25+36+42		
18.00			- do -	18.00	DS	11	78		
19.00			- d b -	19.00	SPT	13	26+38+44		
20.00	20.15			20.15	SPT	14	82		
21.00			B.H terminated at the depth of 20.15 mtr				28+40+46		
22.00							86		
23.00									
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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## BORELOG DATA SHEET

PROJECT :- *Ol. gndia* BORE HOLE NO. :- *01*  
LOCATION :- *mahananda..11* SHEET NO. :- *01*

DATE OF START :- *22.07.09*  
DATE OF COMPL :- *23.07.09*  
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			W. N. VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
0.00	0.00		clay sand	0.50	DS	01			
1.00				1.00	SPT	01	2+3+4		
				1.60	UDS	01	7		
2.00			- do -						
				2.50	SPT	02	3+4+6		
3.00			- do -				10		
				3.00	UDS	02			
4.00				4.00	SPT	03	8+11+13		
	4.50		core sands with				24		
5.00			gravels and pebbles	5.00	DS	02			
				5.50	SPT	04	11+15+18		
6.00				6.50	DS	03	33		
				7.00	SPT	05	13+16+19		
7.00			- do -				35		
				8.00	DS	04			
8.00				8.50	SPT	06	14+18+20		
			- do -				38		
9.00				9.50	DS	05			
				10.00	SPT	07	16+20+22		
10.00			- do -				42		
				11.00	DS	06			
11.00				11.50	SPT	08	18+24+28		
			- do -				52		
12.00				12.50	DS	07			
				13.00	SPT	09	22+28+32		
13.00			- do -				60		
				14.00	DS	08			
14.00				14.50	SPT	10	22+30+35		
15.00							65		

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Web Site : www.swayinassociates.com

## BORELOG DATA SHEET

PROJECT :- *cell. gridia* BORE HOLE NO. :- *01*

DATE OF START :- *22.7.09*

LOCATION :- *mahananda* SHEET NO. :- *02*

DATE OF COMPL :- *23.7.09*

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	REMARKS
				DEPTH	TYPE	NO.			
15.00	15.00		<i>starta continue</i>	1550	DS	09			
16.00				1600	SPT	11	<i>24+33+35</i>		
17.00			<i>- d/c -</i>	1700	DS	10	<i>68</i>		
18.00			<i>- d/c -</i>	1750	SPT	12	<i>26+35+38</i>		
19.00				1850	DS	11	<i>73</i>		
20.00			<i>- d/c -</i>	1900	SPT	13	<i>28+36+40</i>		
21.00				2000	DS	12	<i>76</i>		
22.00	20.10			2010	SPT	14	<i>32+39+42</i>		
23.00			<i>B.H. Terminated at the depth of 20.10 meter</i>				<i>81</i>		
24.00									
25.00									
26.00									
27.00									
28.00									
29.00									
30.00									

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*[Signature]*  
*17/8/09*

For SWAYIN & ASSOCIATES

*[Signature]*