

TENDER SPECIFICATION

BHEL: PSSR: SCT: 1467

FOR

Civil for Boiler, ESP, Power House, TG, Mill Bay and other Main Plant buildings-Foundation, Super structure including Architectural work & other allied works and Structural steel fabrication & Erection for Power House, Mill Bunker Bay, Pipe & cable rack and allied works for units 1&2 of 2 x 800 MW

at

Yermarus Thermal Power Station, Yermarus,
Raichur Dist, Karnataka

CORRIGENDUM-2



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035.

**BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Power Sector, Southern Region
690, Anna Salai, Nandanam, Chennai – 35**

Tender Specification No. BHEL: PSSR: SCT: 1467

for

Civil for Boiler, ESP, Power House, TG, Mill Bay and other Main Plant buildings-Foundation, Super structure including Architectural work & other allied works and Structural steel fabrication & Erection for Power House, Mill Bunker Bay, Pipe & cable rack and allied works for units 1&2 of 2 x 800 MW at Yermarus Thermal Power Station, Yermarus, Raichur Dist, Karnataka

CORRIGENDUM-2

Issued to
M/s

Please note this tender document is not transferable

For and on behalf of
BHARAT HEAVY ELECTRICALS LIMITED

ADDL GENERAL MANAGER / CONTRACTS

Place: Chennai -35

Some of the bidders sought clarifications vide letters or in Pre Bid discussion held on 10.8.2011 at BHEL PSSR Regarding Yermarus 2x800MW Civil and Structural Works Tender Specification BHEL PSSR SCT 1467 and clarifications are furnished below for your information

S.No	Bidder's Query	BHEL Reply
1	Borelog Details are required	Bore log details enclosed
2	Material: Clarify Supply scope of Gratings	As per clause 1.3.13 of Vol1 Book 1,page 27: Structural and reinforcement steel wil be issued free of cost. All other Materials Supply including gratings are in bidders scope.
3	Clarify Carraige of material and disposal	Material disposal area will be within project site with lead of 4 to 5 Km
4	Provide approved Vendor list	No approved Vendors hence any supply should be as per technical specification
5	Clarify the RCC Chimney construction scope	Not in Present scope
6	Clarify Cooling Tower construction Scope	Not in Present scope
7	Bid Drawings are required	Being an itemwise contract at this stage drawing is not envisaged. This is near similar structure to 500MW/600MW. Plot plan and equiptment drawings enclosed for information and this may get revised during execution
8	Clarify Supply scope of Structural Steel for Staging	Required staggng materials are in bidders scope
9	Stagging my be trated as Seprate item	BOQ item is very clear bidder to quote accordingly
10	Please furnish Founding depth list of structure	At this stage it cannot be furnished as it is itemwise contract
11	Earthwork - Provide method of measurement	Earthwork measurement is as per clause 6.02 of Vol-IIB sec-D
12	Separate item for shoring and struting is requested	BOQ item is very clear, no separate item shall be provided.
13	Please specify the type of cement for cement related works	Grade 43 OPC as specified in Clause 7.1 Vol-V D4.6 part-c
14	Boq Item No 208-M40 concrete.Please provide the quantity	This item is Deleted
15	Is Boq Item No 701,702,703-MS Embedments will be operated	Yes
16	Boq Item No.915-glass pannel door .Please specify the size of glass	BOQ item is very clear hence quote accordingly
17	Boq Item No 1401a is inclusive of glass strip and it is repeated in 1430 a	Both items are separate hence quote accordingly
18	Boq Item No. 2000- Please confirm the place where the Fencing to be executed and pole for fencing will be supplied by BHEL free of cost.	BOQ item is very clear hence quote accordingly

19	Boq item No. 2301-Please confirm full quantity of structural steel will be issued at RTPS stores	Yes
20	Boq Item No. 2307-Please clarify whether the supply of electroforged Gratings in BHEL scope	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
21	Boq Item NO.2310-supply of permanent mild steel bolts in BHEL scope	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
22	Boq Item NO.2311-supply of high strength structural bolts in BHEL scope	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
23	Boq Item NO.2316-supply of Thick stainless steel liner in BHEL scope	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
24	Boq Item NO.2317-supply of PTFE type slide bearings in BHEL scope	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
25	Boq Item NO.2318 confirm the supply is in BHEL scope	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
26	Boq Item NO.2319-supply of Stainless steel pipe hand rail in BHEL scope	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
27	Boq Item 2214	Item description is revised. Refer the BOQ in the revised Rate Schedule
28	Please include deck sheeeting,etc for secured advance release	As per tender condition only
29	A705, Please provide length of fixing rebar	BOQ item is very clear hence quote accordingly
30	Fly ash bricks-Please provide fly ash	In the scope of the bidder
31	Item No 1415 b	Deleted.Refer the BOQ in the revised Rate Schedule
32	Item no 2009	Supply is in the bidders scope.Refer the BOQ in the revised Rate Schedule
33	Item no 2301-request for change of item(bolts weight as separate item)	BOQ item is very clear hence quote accordingly
34	Please increase Mobilization advance from 5% to 10%	As per tender condition only
35	Item 209 As per the this,controlling of temp is reqd for item 205 to 208 i.e. for all RCC works qty shown as 52250cum.But the qty indicated in item 209 as 7650cum.Whether the qty shown as 7650cum is rightly indicated or not?	BOQ quantity is correct hence quote accordingly.

36	<p>There is an ambiguity in clause 23 of NIT and the clauses 1.1.10 mentioned in Annexure -4 for consortium agreement. Kindly clarify whether the consortium partner can join with more than one bidder or is he restricted to participate only with one bidder.</p>	<p>consortium partner can join with more than one prime bidder as per NIT Cl 23.</p>
37	<p>Clarify the following for structural steel PQR: 1.Can we take the fabrication from the different projects and erection from the different projects? 2.Can be the fabrication and erection from 2 different periods i.e. fabrication is from different 12 months and erection from different 12 months?</p>	<p>1. yes 2.yes Fabrication or erection quantity in more than one project can also be considered, provided the the fabrication or erection quantities in the said projects would have been executed concurrently.</p>
38	<p>There is contradictory between the clause 1.1.4&1.1.5&1.1.23. Kindly clarify whether both lead partner and associate are jointly and severally responsible or the lead member alone is individually and severally responsible for the execution of contract</p>	<p>As per tender condition only</p>
39	<p>Bid margin in case of consortium bid: Whether the lead member can give the bid margin Bank Guarantee</p>	<p>As per tender condition only</p>
40	<p>We request you to provide the space for the Labour colony</p>	<p>As per tender condition only</p>
41	<p>Suitable higher capacity cranes above 75T capacity cranes are in BHEL scope. Kindly clarify how many cranes will be provided and its capacity. Also we request you to provide all the cranes required for erection on free of cost</p>	<p>As per tender condition only</p>
42	<p>Vol-1, TCC, CL No: 1.3.13 We request you to provide the steel in standard length only not in coil form</p>	<p>As per tender condition only</p>

43	The contract period of 30 Months provided for this project is impractical considering the release of drawings, handing over of site, Monsoon period etc. Kindly change the contract period atleast to 36 months	As per tender condition only
44	<p>TCC CL 1.7.1.2 VAT: Notwithstanding the fact that this is only an erection service contract not involving any transfer of materials whatsoever and not attracting VAT liability, being labour oriented job work, for the purpose of VAT the contractor has to maintain the complete data relating to the expenditure incurred towards wages etc. ...</p> <p>We would like to inform that the work attracts the value added tax. Kindly note that the work involves lot of materials involvement including cement, bricks, steel, etc. The labour portion would be less comparing to the material portion. Kindly change the clause.</p>	Revised VAT clause enclosed
45	TCC CL:1.7.3.1 labour cess-Any other tax is to be included -Kindly confirm whether we need to include the labour cess for this project	Refer Volume 1A Part-1 Chapter VIII TCC CL1.8.4
46	Kindly clarify whether the Over run charges, Quantity Variation, Price Variation are applicable as per GCC	Yes
47	Road works item no 2426-grade for pavers	M20 concrete will be used
48	Tech spc and drawings for items 1819, 1820, 1821	Design in the bidders scope

TAXES

Value Added Tax (VAT) for the works

Price quoted shall be inclusive of VAT (works contract) except Service Tax.

In civil works, as transfer of property in goods is involved, Works Contract Tax under VAT Act as applicable shall be included in the quoted price by you. You shall get registered with State VAT authorities and the Registration Certificate should be forwarded to BHEL immediately after commencement of work.

Deduction of VAT (WCT) at source would be enforced from the running bills at the rates prescribed unless exemption certificate is produced from the concerned authorities. Tax invoice if required under the relevant State VAT Law shall be submitted along with other compliances as per VAT Act.

The monthly/quarterly VAT return, duly incorporating the erection income from BHEL as turnover, should be submitted to BHEL at regular intervals with all annexure and details of payment of VAT (WCT).

You have to obtain VAT Clearance Certificate from the concerned authorities as per the provisions of local VAT act, on completion of the project and submit along with the final bill.

FIELD BORELOG CHART

Client	BHEL				
Project	2X800 MW Yermaras TPS				
Bore hole Location	: BH-115	Existing Ground Level (R.L) ii	359.487		
Co-ordinates	: N236,E262	Depth of Ground Water Table below EGL (m)	5.27		
Type of Boring	: Rotary Drilling	Date of commencement	02.03.11		
	: 150mm in Soil,75mm in Rock	Date of Completion	02.03.11		
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta		
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	5		
		No of SPT sample collected	1		
		No of core sample collected	5		

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks	
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %		
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected									
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	7	15	18	33	NA							Sample collected		
1.00	1.70	0.70			1.7	DS	Refusal											32cm penetration for 100 blows		
1.70	2.00	0.30	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												30cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal												23cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal												20cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal												13cm penetration for 100 blows	
5.00	6.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		6.0	Core							39	5	3	34	39	34	Core Collected	
6.00	7.00	1.00			7.0	Core								45	6	3	36	45	36	Core Collected
7.00	8.00	1.00			8.0	Core								48	6	2	29	48	29	Core Collected
8.00	9.00	1.00			9.0	Core								53	7	3	40	53	40	Core Collected
9.00	10.00	1.00			10.0	Core								67	9	3	45	67	45	Core Collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-116	Existing Ground Level (R.L) ii	360.353				
Co-ordinates	: N41,E259	Depth of Ground Water Table below EGL (m)	5.20				
Type of Boring	: Rotary Drilling	Date of commencement	03.03.11				
	: 150mm in Soil,75mm in Rock	Date of Completion	04.03.11				
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta		No of DS sample collected	8	
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel				No of SPT sample collected	1	
					No of core sample collected	7	

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	6	15	23	38	NA							Sample collected	
1.00	1.80	0.80			1.8	DS	Refusal											28cm penetration for 100 blows	
1.80	2.00	0.20	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												21cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												23cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												20cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												13cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												10cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												7cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												3cm penetration for 100 blows
8.00	9.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		9.0	Core						47	6	3	33	47	33	Core Collected	
9.00	10.00	1.00			10.0	Core							50	8	2	31	50	31	Core Collected
10.00	11.00	1.00			11.0	Core							42	6	3	34	42	34	Core Collected
11.00	12.00	1.00			12.0	Core							48	6	3	36	48	36	Core Collected
12.00	13.00	1.00			13.0	Core							52	8	3	33	52	33	Core Collected
13.00	14.00	1.00			14.0	Core							58	7	3	38	58	38	Core Collected
14.00	15.00	1.00			15.0	Core							68	8	3	41	68	41	Core Collected

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-117	Existing Ground Level (R.L) ii	360.844
Co-ordinates	: N245,E198	Depth of Ground Water Table below EGL (m)	4.32
Type of Boring	: Rotary Drilling	Date of commencement	02.03.11
	: 150mm in Soil,75mm in Rock	Date of Completion	02.03.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	10
		No of SPT sample collected	1
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	17	26	43	NA							Sample collected	
1.00	1.80	0.80			1.8	DS	Refusal											40cm penetration for 100 blows	
1.80	2.00	0.20	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												37cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												35cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												30cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												21cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												20cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												13cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												4cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												8cm penetration for 100 blows
9.00	10.00	1.00	10.0	DS	Refusal												5cm penetration for 100 blows		

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-118	Existing Ground Level (R.L) ii	360.978
Co-ordinates	: N138,E198	Depth of Ground Water Table below EGL (m)	4.57
Type of Boring	: Rotary Drilling	Date of commencement	02.03.11
	: 150mm in Soil,75mm in Rock	Date of Completion	02.03.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	9
		No of SPT sample collected	1
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	5	10	18	28	NA							Sample collected	
1.00	2.00	1.00			2.0	DS	Refusal											32cm penetration for 100 blows	
2.00	3.00	1.00	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		3.0	DS	Refusal												28cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												21cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												18cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												15cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												17cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												12cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												11cm penetration for 100 blows
9.00	10.00	1.00			10.0	DS	Refusal												7cm penetration for 100 blows

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-119	Existing Ground Level (R.L) ii	361.214
Co-ordinates	: N103,E192	Depth of Ground Water Table below EGL (m)	4.20
Type of Boring	: Rotary Drilling	Date of commencement	03.03.11
	: 150mm in Soil,75mm in Rock	Date of Completion	03.03.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	10
		No of SPT sample collected	0
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	DS	Refusal											37cm penetration for 100 blows	
1.00	2.00	1.00	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												35cm penetration for 100 blows
2.00	3.00	1.00		3.0	DS	Refusal												32cm penetration for 100 blows	
3.00	4.00	1.00		4.0	DS	Refusal												26cm penetration for 100 blows	
4.00	5.00	1.00		5.0	DS	Refusal												17cm penetration for 100 blows	
5.00	6.00	1.00		6.0	DS	Refusal												12cm penetration for 100 blows	
6.00	7.00	1.00		7.0	DS	Refusal												11cm penetration for 100 blows	
7.00	8.00	1.00		8.0	DS	Refusal												10cm penetration for 100 blows	
8.00	9.00	1.00		9.0	DS	Refusal												7cm penetration for 100 blows	
9.00	10.00	1.00		10.0	DS	Refusal												5cm penetration for 100 blows	

FIELD BORELOG CHART

Client	BHEL				
Project	2X800 MW Yermaras TPS				
Bore hole Location	: BH-120	Existing Ground Level (R.L) ii	361.360		
Co-ordinates	: S7,E192	Depth of Ground Water Table below EGL (m)	7.23		
Type of Boring	: Rotary Drilling	Date of commencement	03.03.11		
	: 150mm in Soil,75mm in Rock	Date of Completion	04.03.11		
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta	No of DS sample collected	11
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel			No of SPT sample collected	0
				No of core sample collected	4

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	DS	Refusal											29cm penetration for 100 blows	
1.00	2.00	1.00	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												18cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												15cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												13cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												10cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												11cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												8cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												5cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												3cm penetration for 100 blows
9.00	10.00	1.00			10.0	DS	Refusal												2cm penetration for 100 blows
10.00	11.00	1.00			11.0	DS	Refusal												2cm penetration for 100 blows
11.00	12.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		12.0	Core						44	7	2	33	44	33	Core collected	
12.00	13.00	1.00			13.0	Core							52	8	3	38	52	38	Core collected
13.00	14.00	1.00			14.0	Core							45	6	2	33	45	33	Core collected
14.00	15.00	1.00			15.0	Core							48	7	2	31	48	31	Core collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-121	Existing Ground Level (R.L) ii	362.620				
Co-ordinates	: N218,E72	Depth of Ground Water Table below EGL (m)	7.57				
Type of Boring	: Rotary Drilling	Date of commencement	04.03.11				
	: 150mm in Soil,75mm in Rock	Date of Completion	04.03.11				
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta		No of DS sample collected	12	
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel				No of SPT sample collected	1	
					No of core sample collected	3	

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	17	28	45	NA							Sample collected	
1.00	1.70	0.70	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		1.7	DS	Refusal												32cm penetration for 100 blows
1.70	2.00	0.30			2.0	DS	Refusal												30cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												27cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												23cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												20cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												14cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												12cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												9cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												6cm penetration for 100 blows
9.00	10.00	1.00			10.0	DS	Refusal												3cm penetration for 100 blows
10.00	11.00	1.00			11.0	DS	Refusal												2cm penetration for 100 blows
11.00	12.00	1.00	12.0	DS	Refusal												2cm penetration for 100 blows		
12.00	13.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		13.0	Core						47	6	2	31	47	31	Core collected	
13.00	14.00	1.00			14.0	Core							52	7	3	38	52	38	Core collected
14.00	15.00	1.00			15.0	Core							57	6	3	43	57	43	Core collected

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-122	Existing Ground Level (R.L) ii	362.532
Co-ordinates	: N120,E86	Depth of Ground Water Table below EGL (m)	3.10
Type of Boring	: Rotary Drilling	Date of commencement	23.02.11
	: 150mm in Soil,75mm in Rock	Date of Completion	24.02.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	10
		No of SPT sample collected	1
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	15	27	42	NA							Sample collected	
1.00	1.80	0.80			1.8	DS	Refusal											13cm penetration for 100 blows	
1.80	2.00	0.20	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												10cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												7cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												5cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												3cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												3cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												2cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												2cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												2cm penetration for 100 blows
9.00	10.00	1.00	10.0	DS	Refusal													2cm penetration for 100 blows	

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-123	Existing Ground Level (R.L) ii	362.980
Co-ordinates	: N72,E97	Depth of Ground Water Table below EGL (m)	5.78
Type of Boring	: Rotary Drilling	Date of commencement	02.03.11
	150mm in Soil,75mm in Rock	Date of Completion	03.03.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	5
		No of SPT sample collected	1
		No of core sample collected	10

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks	
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %		
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected									
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	7	16	23	39	NA							Sample collected		
1.00	1.70	0.70			1.7	DS	Refusal										25cm penetration for 100 blows			
1.70	2.00	0.30	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											20cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal										17cm penetration for 100 blows			
3.00	4.00	1.00			4.0	DS	Refusal										10cm penetration for 100 blows			
4.00	5.00	1.00			5.0	DS	Refusal										5cm penetration for 100 blows			
5.00	6.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		6.0	Core							43	6	3	36	43	36	Core collected	
6.00	7.00	1.00			7.0	Core								45	7	2	30	45	30	Core collected
7.00	8.00	1.00			8.0	Core								52	8	3	32	52	32	Core collected
8.00	9.00	1.00			9.0	Core								47	6	3	37	47	37	Core collected
9.00	10.00	1.00			10.0	Core								54	7	3	42	54	42	Core collected
10.00	11.00	1.00			11.0	Core								45	7	2	29	45	29	Core collected
11.00	12.00	1.00			12.0	Core								48	6	2	31	48	31	Core collected
12.00	13.00	1.00			13.0	Core								52	7	3	42	52	42	Core collected
13.00	14.00	1.00			14.0	Core								57	8	3	37	57	37	Core collected
14.00	15.00	1.00			15.0	Core								67	8	3	45	67	45	Core collected

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-124	Existing Ground Level (R.L) ii	362.932
Co-ordinates	: N0,E91	Depth of Ground Water Table below EGL (m)	5.71
Type of Boring	: Rotary Drilling	Date of commencement	03.03.11
	150mm in Soil,75mm in Rock	Date of Completion	03.03.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	2
		No of SPT sample collected	1
		No of core sample collected	7

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	7	12	23	35	NA							Sample collected	
1.00	2.00	1.00			2.0	DS	Refusal											17cm penetration for 100 blows	
2.00	3.00	1.00	Highly Weathered Disintegrated Granitic Gneiss		3.0	DS	Refusal											5cm penetration for 100 blows	
3.00	4.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		4.0	Core						47	8	2	29	47	29	Core collected	
4.00	5.00	1.00			5.0	Core							51	7	2	33	51	33	Core collected
5.00	6.00	1.00			6.0	Core							48	6	2	33	48	33	Core collected
6.00	7.00	1.00			7.0	Core							45	7	3	36	45	36	Core collected
7.00	8.00	1.00			8.0	Core							56	8	2	34	56	34	Core collected
8.00	9.00	1.00			9.0	Core							58	7	3	43	58	43	Core collected
9.00	10.00	1.00			10.0	Core							60	9	3	38	60	38	Core collected

FIELD BORELOG CHART

Client	BHEL				
Project	2X800 MW Yermaras TPS				
Bore hole Location	: BH-125	Existing Ground Level (R.L) ii	363.253		
Co-ordinates	: N293,E18	Depth of Ground Water Table below EGL (m)	2.30		
Type of Boring	: Rotary Drilling	Date of commencement	22.02.11		
	: 150mm in Soil,75mm in Rock	Date of Completion	23.02.11		
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta	No of DS sample collected	14
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel			No of SPT sample collected	1
				No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	11	20	34	54	NA							Sample collected	
1.00	1.30	0.30			1.3	DS	Refusal											17cm penetration for 100 blows	
1.30	2.00	0.70	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												13cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												13cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												10 cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												7 cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												7 cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												5 cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												3 cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												3 cm penetration for 100 blows
9.00	10.00	1.00			10.0	DS	Refusal												2 cm penetration for 100 blows
10.00	11.50	1.50			11.5	DS	Refusal												2 cm penetration for 100 blows
11.50	13.00	1.50			13.0	DS	Refusal												2 cm penetration for 100 blows
13.00	14.50	1.50			14.5	DS	Refusal												2 cm penetration for 100 blows
14.50	15.00	0.50	15.0	DS	Refusal												2 cm penetration for 100 blows		

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-126	Existing Ground Level (R.L) ii	363.765
Co-ordinates	: N220,E0	Depth of Ground Water Table below EGL (m)	7.35
Type of Boring	: Rotary Drilling	Date of commencement	22.02.11
	: 150mm in Soil,75mm in Rock	Date of Completion	22.02.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	14
		No of SPT sample collected	1
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	17	31	48	NA							Sample collected	
1.00	1.30	0.30			1.3	DS	Refusal											13cm penetration for 100 blows	
1.30	2.00	0.70	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											12cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											10 cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											7 cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											5 cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											5 cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											3 cm penetration for 100 blows	
7.00	8.00	1.00			8.0	DS	Refusal											3 cm penetration for 100 blows	
8.00	9.00	1.00			9.0	DS	Refusal											3 cm penetration for 100 blows	
9.00	10.00	1.00			10.0	DS	Refusal											2 cm penetration for 100 blows	
10.00	11.50	1.50			11.5	DS	Refusal											2 cm penetration for 100 blows	
11.50	13.00	1.50			13.0	DS	Refusal											3 cm penetration for 100 blows	
13.00	14.50	1.50			14.5	DS	Refusal											3 cm penetration for 100 blows	
14.50	15.00	0.50	15.0	DS	Refusal											2 cm penetration for 100 blows			

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-127	Existing Ground Level (R.L) ii	363.090
Co-ordinates	: N127,E21	Depth of Ground Water Table below EGL (m)	2.35
Type of Boring	: Rotary Drilling	Date of commencement	23.02.11
	: 150mm in Soil,75mm in Rock	Date of Completion	23.02.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	10
		No of SPT sample collected	1
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth (m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	17	24	41	NA							Sample collected	
1.00	1.40	0.40			1.4	DS	Refusal											30cm penetration for 100 blows	
1.40	2.00	0.60	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											17cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											13 cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											11 cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											3 cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											3 cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											2 cm penetration for 100 blows	
7.00	8.00	1.00			8.0	DS	Refusal											2 cm penetration for 100 blows	
8.00	9.00	1.00			9.0	DS	Refusal											2 cm penetration for 100 blows	
9.00	10.00	1.00	10.0	DS	Refusal											2 cm penetration for 100 blows			

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-128	Existing Ground Level (R.L) ii	364.367
Co-ordinates	: N74,E16	Depth of Ground Water	6.59
Type of Boring	: Rotary Drilling	Date of commencement	04.03.11
	150mm in Soil,75mm in Rock	Date of Completion	04.03.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	9
		No of SPT sample collected	1
		No of core sample collected	6

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core							
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected									
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	9	17	25	42	NA							Sample collected		
1.00	1.30	0.30			1.3	DS	Refusal											37cm penetration for 100 blows		
1.30	2.00	0.70	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											32cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal											27cm penetration for 100 blows		
3.00	4.00	1.00			4.0	DS	Refusal											23cm penetration for 100 blows		
4.00	5.00	1.00			5.0	DS	Refusal											20cm penetration for 100 blows		
5.00	6.00	1.00			6.0	DS	Refusal											13cm penetration for 100 blows		
6.00	7.00	1.00			7.0	DS	Refusal											15cm penetration for 100 blows		
7.00	8.00	1.00			8.0	DS	Refusal											11cm penetration for 100 blows		
8.00	9.00	1.00			9.0	DS	Refusal											5cm penetration for 100 blows		
9.00	10.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		10.0	Core							41	5	3	32	41	32	Core collected	
10.00	11.00	1.00			11.0	Core								45	6	3	34	45	34	Core collected
11.00	12.00	1.00			12.0	Core								51	5	3	41	51	41	Core collected
12.00	13.00	1.00			13.0	Core								48	6	3	38	48	38	Core collected
13.00	14.00	1.00			14.0	Core								56	7	2	32	56	32	Core collected
14.00	15.00	1.00			15.0	Core								68	7	2	43	68	43	Core collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-129	Existing Ground Level (R.L) ii	364.510				
Co-ordinates	: N23,E16	Depth of Ground Water	4.30				
Type of Boring	: Rotary Drilling	Table below EGL (m)	23.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	23.02.11				
Dia of Bore	: 150mm	Date of Completion	23.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta			No of DS sample collected	10
						No of SPT sample collected	1
						No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	22	29	47	76	NA							Sample collected	
1.00	1.20	0.20			1.2	DS	Refusal											7cm penetration for 100 blows	
1.20	2.00	0.80	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												5cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												3cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												3cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												2cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												2cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												2cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												2cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												2cm penetration for 100 blows
9.00	10.00	1.00			10.0	DS	Refusal												

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-130	Existing Ground Level (R.L) ii	364.542
Co-ordinates	: N252,W53	Depth of Ground Water Table below EGL (m)	3.81
Type of Boring	: Rotary Drilling	Date of commencement	22.02.11
	: 150mm in Soil,75mm in Rock	Date of Completion	22.02.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	9
		No of SPT sample collected	1
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	11	15	26	NA							Sample collected	
1.00	2.00	1.00			2.0	DS	Refusal											17cm penetration for 100 blows	
2.00	3.00	1.00	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		3.0	DS	Refusal											15cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											8cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											4cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											3cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											3cm penetration for 100 blows	
7.00	8.00	1.00			8.0	DS	Refusal											2cm penetration for 100 blows	
8.00	9.00	1.00			9.0	DS	Refusal											2cm penetration for 100 blows	
9.00	10.00	1.00			10.0	DS	Refusal											2cm penetration for 100 blows	

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-131	Existing Ground Level (R.L) ii	365.615				
Co-ordinates	: N42,W39	Depth of Ground Water	4.10				
Type of Boring	: Rotary Drilling	Table below EGL (m)	23.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	24.02.11				
Dia of Bore	: 150mm	Date of Completion	24.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta			No of DS sample collected	10
						No of SPT sample collected	1
						No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	7	24	31	55	NA							Sample collected	
1.00	1.70	0.70			1.7	DS	Refusal											7cm penetration for 100 blows	
1.70	2.00	0.30	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal												5cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												3cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												3cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												2cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												2cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												2cm penetration for 100 blows
7.00	8.00	1.00			8.0	DS	Refusal												2cm penetration for 100 blows
8.00	9.00	1.00			9.0	DS	Refusal												2cm penetration for 100 blows
9.00	10.00	1.00			10.0	DS	Refusal												

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-132	Existing Ground Level (R.L) ii	365.260				
Co-ordinates	: S2,W35	Depth of Ground Water	7.58				
Type of Boring	: Rotary Drilling	Table below EGL (m)	04.03.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	04.03.11				
Dia of Bore	: 150mm	Date of Completion	04.03.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta			No of DS sample collected	7
					No of SPT sample collected	1	
					No of core sample collected	3	

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	10	18	27	45	NA							Sample collected	
1.00	1.60	0.60			1.6	DS	Refusal											25cm penetration for 100 blows	
1.60	2.00	0.40	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											21cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											15cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											13cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											11cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											6cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											3cm penetration for 100 blows	
7.00	8.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		8.0	Core						51	7	2	31	51	31	Core collected	
8.00	9.00	1.00			9.0	Core							49	6	2	28	49	28	Core collected
9.00	10.00	1.00			10.0	Core							53	7	3	39	53	39	Core collected

FIELD BORELOG CHART

Client	BHEL					
Project	2X800 MW Yermaras TPS					
Bore hole Location	: BH-133	Existing Ground Level (R.L) ii	366.061			
Co-ordinates	: N280,W220	Depth of Ground Water Table below EGL (m)	4.15			
Type of Boring	: Rotary Drilling	Date of commencement	01.03.11			
	: 150mm in Soil,75mm in Rock	Date of Completion	01.03.11		No of DS sample collected	6
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta		No of SPT sample collected	1
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel				No of core sample collected	4

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks	
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %		
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected									
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	12	28	35	63	NA							Sample collected		
1.00	1.50	0.50			1.5	DS	Refusal											37cm penetration for 100 blows		
1.50	2.00	0.50	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											33cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal											27cm penetration for 100 blows		
3.00	4.00	1.00			4.0	DS	Refusal											21cm penetration for 100 blows		
4.00	5.00	1.00			5.0	DS	Refusal											19cm penetration for 100 blows		
5.00	6.00	1.00			6.0	DS	Refusal											10cm penetration for 100 blows		
6.00	7.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		7.0	Core							43	5	3	38	43	38	Core collected	
7.00	8.00	1.00			8.0	Core								51	7	3	38	51	38	Core collected
8.00	9.00	1.00			9.0	Core								48	8	3	36	48	36	Core collected
9.00	10.00	1.00			10.0	Core								53	7	3	38	53	38	Core collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-134	Existing Ground Level (R.L) ii	367.714				
Co-ordinates	: N160,W257	Depth of Ground Water	3.45				
Type of Boring	: Rotary Drilling	Table below EGL (m)	28.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	28.02.11				
Dia of Bore	: 150mm	Date of Completion	28.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta			No of DS sample collected	9
						No of SPT sample collected	1
						No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	25	37	62	NA						Sample collected		
1.00	1.80	0.80			1.8	DS	Refusal										32cm penetration for 100 blows		
1.80	2.00	0.20	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal										30cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal										27cm penetration for 100 blows		
3.00	4.00	1.00			4.0	DS	Refusal										25cm penetration for 100 blows		
4.00	5.00	1.00			5.0	DS	Refusal										21cm penetration for 100 blows		
5.00	6.00	1.00			6.0	DS	Refusal										13cm penetration for 100 blows		
6.00	7.00	1.00			7.0	DS	Refusal										11cm penetration for 100 blows		
7.00	8.00	1.00			8.0	DS	Refusal										12cm penetration for 100 blows		
8.00	9.00	1.00			9.0	DS	Refusal										10cm penetration for 100 blows		
9.00	10.00	1.00			10.0	DS	Refusal										4cm penetration for 100 blows		

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-135	Existing Ground Level (R.L) ii	368.172				
Co-ordinates	: S3,W240	Depth of Ground Water	4.95				
Type of Boring	: Rotary Drilling	Table below EGL (m)	28.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	28.02.11				
Dia of Bore	: 150mm	Date of Completion	28.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta			No of DS sample collected	10
						No of SPT sample collected	1
						No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	9	21	35	56	NA						Sample collected		
1.00	1.70	0.70			1.7	DS	Refusal										37cm penetration for 100 blows		
1.70	2.00	0.30	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal										32cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal										30cm penetration for 100 blows		
3.00	4.00	1.00			4.0	DS	Refusal										27cm penetration for 100 blows		
4.00	5.00	1.00			5.0	DS	Refusal										21cm penetration for 100 blows		
5.00	6.00	1.00			6.0	DS	Refusal										20cm penetration for 100 blows		
6.00	7.00	1.00			7.0	DS	Refusal										23cm penetration for 100 blows		
7.00	8.00	1.00			8.0	DS	Refusal										21cm penetration for 100 blows		
8.00	9.00	1.00			9.0	DS	Refusal										17cm penetration for 100 blows		
9.00	10.00	1.00			10.0	DS	Refusal										5cm penetration for 100 blows		

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-136	Existing Ground Level (R.L) ii	367.715				
Co-ordinates	: S94,W133	Depth of Ground Water	7.71				
Type of Boring	: Rotary Drilling	Date of commencement	27.02.11				
	: 150mm in Soil,75mm in Rock	Date of Completion	27.02.11				
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta		No of DS sample collected	8	
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel				No of SPT sample collected	1	
					No of core sample collected	6	

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	10	27	34	61	NA							Sample collected	
1.00	1.40	0.40			1.4	DS	Refusal											32cm penetration for 100 blows	
1.40	2.00	0.60	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											28cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											23cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											19cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											15cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											7cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											3cm penetration for 100 blows	
7.00	8.00	1.00	8.0	DS	Refusal											2cm penetration for 100 blows			
8.00	9.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		9.0	Core						45	7	3	39	45	39	Core collected	
9.00	10.00	1.00			10.0	Core							43	6	3	35	43	35	Core collected
10.00	11.50	1.50			11.5	Core							46	7	3	36	31	24	Core collected
11.50	13.00	1.50			13.0	Core							49	6	3	48	33	32	Core collected
13.00	14.50	1.50			14.5	Core							47	5	3	40	31	27	Core collected
14.50	15.00	0.50			15.0	Core							63	7	3	46	126	92	Core collected

FIELD BORELOG CHART

Client	BHEL							
Project	2X800 MW Yermaras TPS							
Bore hole Location	: BH-137	Existing Ground Level (R.L) ii	367.761					
Co-ordinates	: S71,W99	Depth of Ground Water	7.25					
Type of Boring	: Rotary Drilling	Table below EGL (m)	28.02.11					
	: 150mm in Soil,75mm in Rock	Date of commencement	28.02.11					
Dia of Bore	: 150mm	Date of Completion	28.02.11					
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta				No of DS sample collected	10
							No of SPT sample collected	1
						No of core sample collected	0	

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	9	25	37	62	NA						Sample collected		
1.00	1.50	0.50			1.5	DS	Refusal										33cm penetration for 100 blows		
1.50	2.00	0.50	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal										31cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal										30cm penetration for 100 blows		
3.00	4.00	1.00			4.0	DS	Refusal										27cm penetration for 100 blows		
4.00	5.00	1.00			5.0	DS	Refusal										25cm penetration for 100 blows		
5.00	6.00	1.00			6.0	DS	Refusal										21cm penetration for 100 blows		
6.00	7.00	1.00			7.0	DS	Refusal										17cm penetration for 100 blows		
7.00	8.00	1.00			8.0	DS	Refusal										13cm penetration for 100 blows		
8.00	9.00	1.00			9.0	DS	Refusal										11cm penetration for 100 blows		
9.00	10.00	1.00			10.0	DS	Refusal										4cm penetration for 100 blows		

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-138	Existing Ground Level (R.L) ii	367.410				
Co-ordinates	: S167,W93	Depth of Ground Water	4.32				
Type of Boring	: Rotary Drilling	Table below EGL (m)	26.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	26.02.11				
Dia of Bore	: 150mm	Date of Completion	26.02.11				
		Conducted By	K.C.Mohanta				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	9				
		No of SPT sample collected	0				
		No of core sample collected	2				

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	DS	Refusal											31cm penetration for 100 blows	
1.00	1.50	0.50	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		1.5	DS	Refusal											25cm penetration for 100 blows	
1.50	2.00	0.50			2.0	DS	Refusal											23cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											15cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											10cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											11cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											10cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											7cm penetration for 100 blows	
7.00	8.00	1.00			8.0	DS	Refusal											5cm penetration for 100 blows	
8.00	9.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		9.0	Core							47	4	3	37	47	37	Core collected
9.00	10.00	1.00			10.0	Core							52	5	3	46	52	46	Core collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-139	Existing Ground Level (R.L) ii	367.126				
Co-ordinates	: S141,W101	Depth of Ground Water	7.35				
Type of Boring	: Rotary Drilling	Table below EGL (m)	26.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	26.02.11				
Dia of Bore	: 150mm	Date of Completion	26.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta		No of DS sample collected	8	
				No of SPT sample collected	0		
				No of core sample collected	3		

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	0.70	0.70	Blackish coloured Silty Clay of low plasticity		0.7	DS	Refusal											32cm penetration for 100 blows	
0.70	1.00	0.30	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		1.0	DS	Refusal												30cm penetration for 100 blows
1.00	2.00	1.00			2.0	DS	Refusal												27cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												23cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												21cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												18cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												13cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												10cm penetration for 100 blows
7.00	8.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		8.0	Core							42	5	3	38	42	38	Core collected
8.00	9.00	1.00			9.0	Core							47	4	2	29	47	29	Core collected
9.00	10.00	1.00			10.0	Core							51	5	3	41	51	41	Core collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-139	Existing Ground Level (R.L) ii	367.713				
Co-ordinates	: S160,W129	Depth of Ground Water	5.50				
Type of Boring	: Rotary Drilling	Date of commencement	27.02.11				
	150mm in Soil,75mm in Rock	Date of Completion	27.02.11				
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta		No of DS sample collected	7	
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel				No of SPT sample collected	1	
					No of core sample collected	3	

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	24	32	56	NA						Sample Collected		
1.00	1.50	0.50			1.5	DS	Refusal										32cm penetration for 100 blows		
1.50	2.00	0.50	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal										30cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal										27cm penetration for 100 blows		
3.00	4.00	1.00			4.0	DS	Refusal										20cm penetration for 100 blows		
4.00	5.00	1.00			5.0	DS	Refusal										13cm penetration for 100 blows		
5.00	6.00	1.00			6.0	DS	Refusal										10cm penetration for 100 blows		
6.00	7.00	1.00			7.0	DS	Refusal										7cm penetration for 100 blows		
7.00	8.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		8.0	Core						47	4	2	28	47	28	Core collected	
8.00	9.00	1.00			9.0	Core							52	5	2	31	52	31	Core collected
9.00	10.00	1.00			10.0	Core							58	6	3	37	58	37	Core collected

FIELD BORELOG CHART

Client	BHEL		
Project	2X800 MW Yermaras TPS		
Bore hole Location	: BH-141	Existing Ground Level (R.L) ii	366.010
Co-ordinates	: S134,W10	Depth of Ground Water Table below EGL (m)	4.75
Type of Boring	: Rotary Drilling	Date of commencement	28.02.11
	150mm in Soil,75mm in Rock	Date of Completion	28.02.11
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	10
		No of SPT sample collected	1
		No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	12	28	32	60	NA							Sample Collected	
1.00	1.40	0.40			1.4	DS	Refusal											32cm penetration for 100 blows	
1.40	2.00	0.60	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											32cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											30cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											25cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											20cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											20cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											17cm penetration for 100 blows	
7.00	8.00	1.00			8.0	DS	Refusal											15cm penetration for 100 blows	
8.00	9.00	1.00			9.0	DS	Refusal											8cm penetration for 100 blows	
9.00	10.00	1.00	10.0	DS	Refusal											5cm penetration for 100 blows			

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-142	Existing Ground Level (R.L) ii	365.167				
Co-ordinates	: S61,W28	Depth of Ground Water	2.30				
Type of Boring	: Rotary Drilling	Table below EGL (m)	26.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	26.02.11				
Dia of Bore	: 150mm	Date of Completion	26.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta			No of DS sample collected	4
					No of SPT sample collected	0	
					No of core sample collected	7	

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	0.50	0.50	Blackish coloured Silty Clay of low plasticity		0.5	DS	Refusal											7cm penetration for 100 blows	
0.50	1.00	0.50	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		1.0	DS	Refusal												5cm penetration for 100 blows
1.00	2.00	1.00			2.0	DS	Refusal												5cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												3cm penetration for 100 blows
3.00	4.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		4.0	Core						29	5	1	10	29	10	Core collected	
4.00	5.00	1.00			5.0	Core							32	4	2	24	32	24	Core collected
5.00	6.00	1.00			6.0	Core							46	3	3	38	46	38	Core collected
6.00	7.00	1.00			7.0	Core							52	4	3	41	52	41	Core collected
7.00	8.00	1.00			8.0	Core							54	4	2	32	54	32	Core collected
8.00	9.00	1.00			9.0	Core							51	5	3	40	51	40	Core collected
9.00	10.00	1.00			10.0	Core							57	5	3	45	57	45	Core collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-143	Existing Ground Level (R.L) ii	364.520				
Co-ordinates	: S72,W54	Depth of Ground Water	4.57				
Type of Boring	: Rotary Drilling	Date of commencement	27.02.11				
	150mm in Soil,75mm in Rock	Date of Completion	27.02.11				
Dia of Bore	: 150mm	Conducted By	K.C.Mohanta		No of DS sample collected	8	
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of SPT sample collected	0				
		No of core sample collected	3				

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	0.80	0.80	Blackish coloured Silty Clay of low plasticity		0.8	DS	Refusal											32cm penetration for 100 blows	
0.80	1.00	0.20	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		1.0	DS	Refusal												30cm penetration for 100 blows
1.00	2.00	1.00			2.0	DS	Refusal												27cm penetration for 100 blows
2.00	3.00	1.00			3.0	DS	Refusal												21cm penetration for 100 blows
3.00	4.00	1.00			4.0	DS	Refusal												17cm penetration for 100 blows
4.00	5.00	1.00			5.0	DS	Refusal												15cm penetration for 100 blows
5.00	6.00	1.00			6.0	DS	Refusal												11cm penetration for 100 blows
6.00	7.00	1.00			7.0	DS	Refusal												7cm penetration for 100 blows
7.00	8.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		8.0	Core							49	5	3	40	49	40	Core collected
8.00	9.00	1.00			9.0	Core							58	5	3	38	58	38	Core collected
9.00	10.00	1.00			10.0	Core							65	7	3	46	65	46	Core collected

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-144	Existing Ground Level (R.L) ii	364.471				
Co-ordinates	: S110,E70	Depth of Ground Water	3.25				
Type of Boring	: Rotary Drilling	Table below EGL (m)	27.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	27.02.11				
Dia of Bore	: 150mm	Date of Completion	27.02.11				
	: 150mm	Conducted By	K.C.Mohanta				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	No of DS sample collected	8				
		No of SPT sample collected	1				
		No of core sample collected	2				

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	11	25	38	63	NA							Sample Collected	
1.00	1.50	0.50			1.5	DS	Refusal											17cm penetration for 100 blows	
1.50	2.00	0.50	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											14cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											15cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											12cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											11cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											12cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											7cm penetration for 100 blows	
7.00	8.00	1.00			8.0	DS	Refusal											3cm penetration for 100 blows	
8.00	9.00	1.00	Massive Coarse Grained Light Yellowish colour Crystalline Granitic Gneiss		9.0	Core						58	6	3	43	58	43	Core collected	
9.00	10.00	1.00			10.0	Core							63	5	3	42	63	42	Core collected

FIELD BORELOG CHART

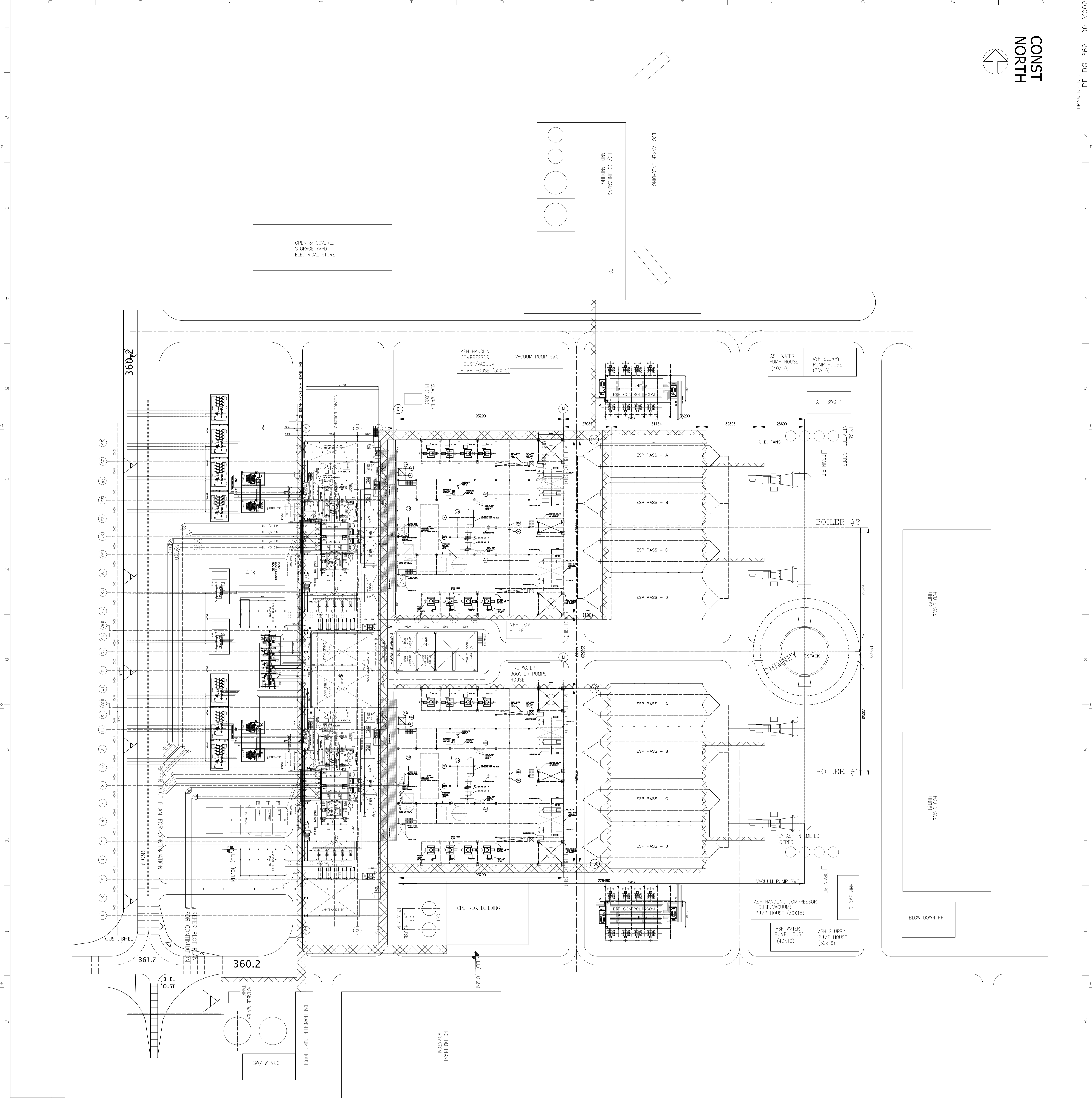
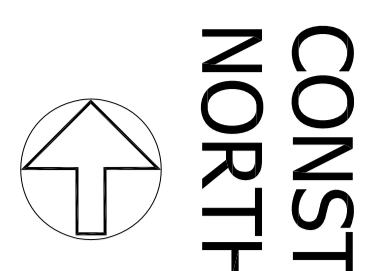
Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-145	Existing Ground Level (R.L) ii	360.854				
Co-ordinates	: S75,E245	Depth of Ground Water	3.30				
Type of Boring	: Rotary Drilling	Table below EGL (m)	25.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	25.02.11				
Dia of Bore	: 150mm	Date of Completion	25.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta			No of DS sample collected	10
						No of SPT sample collected	1
						No of core sample collected	0

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	Remarks
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	8	15	27	42	NA						Sample Collected		
1.00	1.50	0.50			1.5	DS	Refusal										32cm penetration for 100 blows		
1.50	2.00	0.50	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal										17cm penetration for 100 blows		
2.00	3.00	1.00			3.0	DS	Refusal										15cm penetration for 100 blows		
3.00	4.00	1.00			4.0	DS	Refusal										14cm penetration for 100 blows		
4.00	5.00	1.00			5.0	DS	Refusal										11cm penetration for 100 blows		
5.00	6.00	1.00			6.0	DS	Refusal										11cm penetration for 100 blows		
6.00	7.00	1.00			7.0	DS	Refusal										7cm penetration for 100 blows		
7.00	8.00	1.00			8.0	DS	Refusal										3cm penetration for 100 blows		
8.00	9.00	1.00			9.0	DS	Refusal										3cm penetration for 100 blows		
9.00	10.00	1.00			10.0	DS	Refusal										2cm penetration for 100 blows		

FIELD BORELOG CHART

Client	BHEL						
Project	2X800 MW Yermaras TPS						
Bore hole Location	: BH-146	Existing Ground Level (R.L) ii	361.902				
Co-ordinates	: S218,E279	Depth of Ground Water	4.68				
Type of Boring	: Rotary Drilling	Table below EGL (m)	26.02.11				
	: 150mm in Soil,75mm in Rock	Date of commencement	26.02.11				
Dia of Bore	: 150mm	Date of Completion	26.02.11				
Type of Sampler used	: UDS/Split spoon Sampler/Core barrel	Conducted By	K.C.Mohanta		No of DS sample collected	10	
				No of SPT sample collected	1		
				No of core sample collected	0		

Depth(m)		Length of Run(m)	Description of Strata	Log of Bore	Sampling		SPT					IS Classification	Details of Rock Core						Remarks
From	To				Depth(m)	Type	Blows Required for Penetration of depth			N value			Total Length (cm)	No of Core Pieces	No. of Core pieces greater than 10 cm	Total Length of core pieces greater than 10cm	% of Core Recovery	RQD Value %	
							0 - 15 cm	15 - 30 cm	30 - 45 cm	Observed	Corrected								
0.00	1.00	1.00	Blackish coloured Silty Clay of low plasticity		1.0	SPT	12	27	43	70	NA							Sample Collected	
1.00	1.80	0.80			1.8	DS	Refusal											17cm penetration for 100 blows	
1.80	2.00	0.20	Highly Weathered Disintegrated Granitic Gneiss with Sandy Quartz and Feldspar Fragments having High porosity and permeability		2.0	DS	Refusal											15cm penetration for 100 blows	
2.00	3.00	1.00			3.0	DS	Refusal											10cm penetration for 100 blows	
3.00	4.00	1.00			4.0	DS	Refusal											5cm penetration for 100 blows	
4.00	5.00	1.00			5.0	DS	Refusal											3cm penetration for 100 blows	
5.00	6.00	1.00			6.0	DS	Refusal											2cm penetration for 100 blows	
6.00	7.00	1.00			7.0	DS	Refusal											2cm penetration for 100 blows	
7.00	8.00	1.00			8.0	DS	Refusal											2cm penetration for 100 blows	
8.00	9.00	1.00			9.0	DS	Refusal											2cm penetration for 100 blows	
9.00	10.00	1.00			10.0	DS	Refusal											2cm penetration for 100 blows	



REV	DATE	BY	CHKD	APPD	DESCRIPTION
01	10/02/2011	SM			ISSUED IN DRAWING
02					ISSUED IN DRAWING

JOB NO. 362
 STATUS CONTRACT
 DISTRIBUTION

PROJECT: 2x800MW YERMARUS SUPERCritical TPP
 CONSULTANT: RAJCHUR POWER CORPORATION LIMITED (A JVC OF KPCL & BHEL)
 PROJECTS: BHARAT HEAVY ELECTRICALS LTD
 POWER EQUIP. MANAGEMENT
 NEW DELHI

REFERENCE DWS	SN. NO	TITLE	NUMBER	UNIT
1	1	1.6. HALL CROSS SECTION	PE-06-362-100-M007	PEM
2	2	2. TO EQUIPMENT PLANT AT ELS 1.5 M	PE-06-362-100-M004	PEM
3	3	3. TO EQUIPMENT PLANT AT ELS 3 M	PE-06-362-100-M005	PEM
4	4	4. TO EQUIPMENT PLANT AT ELS 4.5 M	PE-06-362-100-M006	PEM
5	5	5. TO EQUIPMENT PLANT AT ELS 6 M	PE-06-362-100-M008	PEM
		6. TO EQUIPMENT PLANT AT ELS 7.5 M	PE-06-362-100-M009	PEM
		7. TO EQUIPMENT PLANT AT ELS 9 M	PE-06-362-100-M010	PEM
		8. TO EQUIPMENT PLANT AT ELS 10.5 M	PE-06-362-100-M011	PEM
		9. TO EQUIPMENT PLANT AT ELS 12 M	PE-06-362-100-M012	PEM
		10. TO EQUIPMENT PLANT AT ELS 13.5 M	PE-06-362-100-M013	PEM
		11. TO EQUIPMENT PLANT AT ELS 15 M	PE-06-362-100-M014	PEM
		12. TO EQUIPMENT PLANT AT ELS 16.5 M	PE-06-362-100-M015	PEM
		13. TO EQUIPMENT PLANT AT ELS 18 M	PE-06-362-100-M016	PEM
		14. TO EQUIPMENT PLANT AT ELS 19.5 M	PE-06-362-100-M017	PEM
		15. TO EQUIPMENT PLANT AT ELS 21 M	PE-06-362-100-M018	PEM
		16. TO EQUIPMENT PLANT AT ELS 22.5 M	PE-06-362-100-M019	PEM
		17. TO EQUIPMENT PLANT AT ELS 24 M	PE-06-362-100-M020	PEM
		18. TO EQUIPMENT PLANT AT ELS 25.5 M	PE-06-362-100-M021	PEM
		19. TO EQUIPMENT PLANT AT ELS 27 M	PE-06-362-100-M022	PEM
		20. TO EQUIPMENT PLANT AT ELS 28.5 M	PE-06-362-100-M023	PEM
		21. TO EQUIPMENT PLANT AT ELS 30 M	PE-06-362-100-M024	PEM
		22. TO EQUIPMENT PLANT AT ELS 31.5 M	PE-06-362-100-M025	PEM
		23. TO EQUIPMENT PLANT AT ELS 33 M	PE-06-362-100-M026	PEM
		24. TO EQUIPMENT PLANT AT ELS 34.5 M	PE-06-362-100-M027	PEM
		25. TO EQUIPMENT PLANT AT ELS 36 M	PE-06-362-100-M028	PEM
		26. TO EQUIPMENT PLANT AT ELS 37.5 M	PE-06-362-100-M029	PEM
		27. TO EQUIPMENT PLANT AT ELS 39 M	PE-06-362-100-M030	PEM
		28. TO EQUIPMENT PLANT AT ELS 40.5 M	PE-06-362-100-M031	PEM
		29. TO EQUIPMENT PLANT AT ELS 42 M	PE-06-362-100-M032	PEM
		30. TO EQUIPMENT PLANT AT ELS 43.5 M	PE-06-362-100-M033	PEM
		31. TO EQUIPMENT PLANT AT ELS 45 M	PE-06-362-100-M034	PEM
		32. TO EQUIPMENT PLANT AT ELS 46.5 M	PE-06-362-100-M035	PEM
		33. TO EQUIPMENT PLANT AT ELS 48 M	PE-06-362-100-M036	PEM
		34. TO EQUIPMENT PLANT AT ELS 49.5 M	PE-06-362-100-M037	PEM
		35. TO EQUIPMENT PLANT AT ELS 51 M	PE-06-362-100-M038	PEM
		36. TO EQUIPMENT PLANT AT ELS 52.5 M	PE-06-362-100-M039	PEM
		37. TO EQUIPMENT PLANT AT ELS 54 M	PE-06-362-100-M040	PEM
		38. TO EQUIPMENT PLANT AT ELS 55.5 M	PE-06-362-100-M041	PEM
		39. TO EQUIPMENT PLANT AT ELS 57 M	PE-06-362-100-M042	PEM
		40. TO EQUIPMENT PLANT AT ELS 58.5 M	PE-06-362-100-M043	PEM
		41. TO EQUIPMENT PLANT AT ELS 60 M	PE-06-362-100-M044	PEM
		42. TO EQUIPMENT PLANT AT ELS 61.5 M	PE-06-362-100-M045	PEM
		43. TO EQUIPMENT PLANT AT ELS 63 M	PE-06-362-100-M046	PEM
		44. TO EQUIPMENT PLANT AT ELS 64.5 M	PE-06-362-100-M047	PEM
		45. TO EQUIPMENT PLANT AT ELS 66 M	PE-06-362-100-M048	PEM
		46. TO EQUIPMENT PLANT AT ELS 67.5 M	PE-06-362-100-M049	PEM
		47. TO EQUIPMENT PLANT AT ELS 69 M	PE-06-362-100-M050	PEM
		48. TO EQUIPMENT PLANT AT ELS 70.5 M	PE-06-362-100-M051	PEM
		49. TO EQUIPMENT PLANT AT ELS 72 M	PE-06-362-100-M052	PEM
		50. TO EQUIPMENT PLANT AT ELS 73.5 M	PE-06-362-100-M053	PEM
		51. TO EQUIPMENT PLANT AT ELS 75 M	PE-06-362-100-M054	PEM
		52. TO EQUIPMENT PLANT AT ELS 76.5 M	PE-06-362-100-M055	PEM
		53. TO EQUIPMENT PLANT AT ELS 78 M	PE-06-362-100-M056	PEM
		54. TO EQUIPMENT PLANT AT ELS 79.5 M	PE-06-362-100-M057	PEM
		55. TO EQUIPMENT PLANT AT ELS 81 M	PE-06-362-100-M058	PEM
		56. TO EQUIPMENT PLANT AT ELS 82.5 M	PE-06-362-100-M059	PEM
		57. TO EQUIPMENT PLANT AT ELS 84 M	PE-06-362-100-M060	PEM
		58. TO EQUIPMENT PLANT AT ELS 85.5 M	PE-06-362-100-M061	PEM
		59. TO EQUIPMENT PLANT AT ELS 87 M	PE-06-362-100-M062	PEM
		60. TO EQUIPMENT PLANT AT ELS 88.5 M	PE-06-362-100-M063	PEM
		61. TO EQUIPMENT PLANT AT ELS 90 M	PE-06-362-100-M064	PEM
		62. TO EQUIPMENT PLANT AT ELS 91.5 M	PE-06-362-100-M065	PEM
		63. TO EQUIPMENT PLANT AT ELS 93 M	PE-06-362-100-M066	PEM
		64. TO EQUIPMENT PLANT AT ELS 94.5 M	PE-06-362-100-M067	PEM
		65. TO EQUIPMENT PLANT AT ELS 96 M	PE-06-362-100-M068	PEM
		66. TO EQUIPMENT PLANT AT ELS 97.5 M	PE-06-362-100-M069	PEM
		67. TO EQUIPMENT PLANT AT ELS 99 M	PE-06-362-100-M070	PEM
		68. TO EQUIPMENT PLANT AT ELS 100.5 M	PE-06-362-100-M071	PEM
		69. TO EQUIPMENT PLANT AT ELS 102 M	PE-06-362-100-M072	PEM
		70. TO EQUIPMENT PLANT AT ELS 103.5 M	PE-06-362-100-M073	PEM
		71. TO EQUIPMENT PLANT AT ELS 105 M	PE-06-362-100-M074	PEM
		72. TO EQUIPMENT PLANT AT ELS 106.5 M	PE-06-362-100-M075	PEM
		73. TO EQUIPMENT PLANT AT ELS 108 M	PE-06-362-100-M076	PEM
		74. TO EQUIPMENT PLANT AT ELS 109.5 M	PE-06-362-100-M077	PEM
		75. TO EQUIPMENT PLANT AT ELS 111 M	PE-06-362-100-M078	PEM
		76. TO EQUIPMENT PLANT AT ELS 112.5 M	PE-06-362-100-M079	PEM
		77. TO EQUIPMENT PLANT AT ELS 114 M	PE-06-362-100-M080	PEM
		78. TO EQUIPMENT PLANT AT ELS 115.5 M	PE-06-362-100-M081	PEM
		79. TO EQUIPMENT PLANT AT ELS 117 M	PE-06-362-100-M082	PEM
		80. TO EQUIPMENT PLANT AT ELS 118.5 M	PE-06-362-100-M083	PEM
		81. TO EQUIPMENT PLANT AT ELS 120 M	PE-06-362-100-M084	PEM
		82. TO EQUIPMENT PLANT AT ELS 121.5 M	PE-06-362-100-M085	PEM
		83. TO EQUIPMENT PLANT AT ELS 123 M	PE-06-362-100-M086	PEM
		84. TO EQUIPMENT PLANT AT ELS 124.5 M	PE-06-362-100-M087	PEM
		85. TO EQUIPMENT PLANT AT ELS 126 M	PE-06-362-100-M088	PEM
		86. TO EQUIPMENT PLANT AT ELS 127.5 M	PE-06-362-100-M089	PEM
		87. TO EQUIPMENT PLANT AT ELS 129 M	PE-06-362-100-M090	PEM
		88. TO EQUIPMENT PLANT AT ELS 130.5 M	PE-06-362-100-M091	PEM
		89. TO EQUIPMENT PLANT AT ELS 132 M	PE-06-362-100-M092	PEM
		90. TO EQUIPMENT PLANT AT ELS 133.5 M	PE-06-362-100-M093	PEM
		91. TO EQUIPMENT PLANT AT ELS 135 M	PE-06-362-100-M094	PEM
		92. TO EQUIPMENT PLANT AT ELS 136.5 M	PE-06-362-100-M095	PEM
		93. TO EQUIPMENT PLANT AT ELS 138 M	PE-06-362-100-M096	PEM
		94. TO EQUIPMENT PLANT AT ELS 139.5 M	PE-06-362-100-M097	PEM
		95. TO EQUIPMENT PLANT AT ELS 141 M	PE-06-362-100-M098	PEM
		96. TO EQUIPMENT PLANT AT ELS 142.5 M	PE-06-362-100-M099	PEM
		97. TO EQUIPMENT PLANT AT ELS 144 M	PE-06-362-100-M100	PEM

NOTES:-
 1. ALL DIMENSIONS ARE IN MM AND DECIMAL ARE IN METERS.
 2. ALL ELEVATION MARKED ARE M.A.T.L TO HALL GROUND FLOOR ELEVATION OF 100M WHICH CORRESPONDS TO 66.267M
 3. EQUIPMENTS & FOUNDIES SHOWN FOR REFERENCE ARE SUGGESTIVE ONLY.

SCALE: 1:250
 SHEET 1 OF 1
 REV: 01

DATE: 10/02/2011
 BY: SM
 CHKD: [Signature]
 APPD: [Signature]

TITLE: MAIN PLANT EQUIPMENT LAYOUT PLAN

PROJECT: 2x800MW YERMARUS SUPERCritical TPP

CONSULTANT: RAJCHUR POWER CORPORATION LIMITED (A JVC OF KPCL & BHEL)

PROJECTS: BHARAT HEAVY ELECTRICALS LTD
 POWER EQUIP. MANAGEMENT
 NEW DELHI

DATE: 10/02/2011
 BY: SM
 CHKD: [Signature]
 APPD: [Signature]

TITLE: MAIN PLANT EQUIPMENT LAYOUT PLAN

PROJECT: 2x800MW YERMARUS SUPERCritical TPP

CONSULTANT: RAJCHUR POWER CORPORATION LIMITED (A JVC OF KPCL & BHEL)

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 POWER EQUIP. MANAGEMENT
 NEW DELHI

DATE: 10/02/2011
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 CHKD: [Signature]
 APPD: [Signature]

TITLE: MAIN PLANT EQUIPMENT LAYOUT PLAN

PROJECT: 2x800MW YERMARUS SUPERCritical TPP

CONSULTANT: RAJCHUR POWER CORPORATION LIMITED (A JVC OF KPCL & BHEL)

PROJECTS: BHARAT HEAVY ELECTRICALS LTD
 POWER EQUIP. MANAGEMENT
 NEW DELHI

DATE: 10/02/2011
 BY: SM
 CHKD: [Signature]
 APPD: [Signature]

TITLE: MAIN PLANT EQUIPMENT LAYOUT PLAN

PROJECT: 2x800MW YERMARUS SUPERCritical TPP

CONSULTANT: RAJCHUR POWER CORPORATION LIMITED (A JVC OF KPCL & BHEL)

PROJECTS: BHARAT HEAVY ELECTRICALS LTD
 POWER EQUIP. MANAGEMENT
 NEW DELHI

DATE: 10/02/2011
 BY: SM
 CHKD: [Signature]
 APPD: [Signature]

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Corrigendum will form and part of the tender specification. Hence bidders are requested to submit the corrigendum along with their offer.

Please visit www.bhel.com for corrigendum.

**ALL OTHER CONDITIONS AND DUE DATE & TIME FOR OPENING OF TECHNICAL BIDS
: 03.09.2011, 15.30 HRS REMAINS UNCHANGED.**

AGM / CONTRACTS