



BHARAT HEAVY ELECTRICALS LIMITED/PEM-NOIDA

## Corrigendum-1

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Project: 2x800 MW DARLIPALI STPP SG

Date: 19.08.2017

PACKAGE: MRS-PNEUMATIC TYPE

ENQUIRY NO: E-5664/2017 Dtd. 03/08/2017

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Financial PQR, price formats and GST related corrigendum to GCC REV-06 are attached along with this corrigendum.

Bidders to quote prices in Revise price format attached along with the corrigendum only.

  
19/08/17

GURU DAS

DY.MGR/BOP-Ordering

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BHARAT HEAVY ELECTRICALS LIMITED/PEM-NOIDA



## PRE - QUALIFYING REQUIREMENTS

ENQUIRY NO:

PROJECT:

2 X 800 MW DARLIPALI STPP (SG)

PACKAGE:

MILL REJECT SYSTEM (PNEUMATIC TYPE)

### CRITERIA FOR EVALUATION - FINANCIAL :

	Amount (in Rs.)
Average annual financial turnover during the last Three Financial Years should not be less than Rupees One Crore Sixty Lakh(s) Only	Rs.1,60,00,000.00

#### Notes:-

a) The bidder has to submit financial accounts (audited, if applicable comprising of Audit report, Balance Sheet, Profit & Loss A/c Statement and Notes/Schedules pertaining to Turnover/Sales/Revenue), for last three years (or from the date of incorporation, whichever is less) as on tender due date to review the above criteria. In case the incorporation of vendor is less than 3 years, average annual financial turnover shall be calculated based on available information as below:-

i) If the accounts are available for  $\leq 1$  Financial Year, the Average Annual Turnover shall be calculated based on available information divided by 1 (One).

ii) If the accounts are available for  $>1$  but  $\leq 2$  Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 2 (Two).

iii) If the accounts are available for  $>2$  but  $\leq 3$  Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 3 (Three).

b) Foreign bidder is to submit a latest report from reputed third party business rating agency like Dun & Bradstreet, Credit reform etc. in addition to the documents mentioned at point (a) above for review of above criteria.

c) Other Income shall not be considered for arriving at Annual Turnover/Sales. For evaluation purpose, Turnover figure excluding taxes shall be considered.

d) For evaluation of foreign bidder, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid in case of two part bid) shall be considered.

**NAME OF PROJECT:** 2X800 MW DARLIPALI STPP  
**NAME OF PACKAGE:** MILL REJECT SYSTEM (PNEUMATIC TYPE)  
**TECHNICAL SPECIFICATION:** PE-TS-403-160-A001

**SUPPLY**

**SERVICES**

**GRAND TOTAL**

S. No.	DESCRIPTION	HSN Code/ Service Activity No. (To be filled by the bidder)	UNIT	QTY	Unit Ex-works (INR)	Total Ex-works (INR)	GST @.....%	GST in INR	Type of GST (CGST+SGST/UTG ST) or IGST	TOTAL SUPPLY PRICE INCLUDING GST (INR)	SAN NO FOR SERVICES	TOTAL E&C CHARGES (INR)	Freight (INR)	TOTAL OF E&C and freight	GST @.....% ON E&C and freight (INR)(GST on freight shall be same as GST on E&C)	GST in INR	TOTAL E&C CHARGES and Freight INCLUDING GST (INR)	TOTAL LUMPSUM PRICE FOR SUPPLY AND E&C WITH GST (INR)
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART, SERVICE PART & MANDATORY SPARES comprising of design (i.e preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles, fill of assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles, fill of lubricants & consumables, mandatory spares alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation & storage at site, in-site transportation, assembly, minor civil works, erection & commissioning, trial run at site and carrying out performance guarantee/Functional/Demonstration tests at site (As applicable), training of customer/client O&M staff (as applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.		Lot	1														
2.0	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.																	
2.1	Prices inclusive of all prevailing taxes, duties and other levies for SUPPLY part comprising of design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles, fill of lubricants & consumables, alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.		Lot	1														
2.2	Total lumpsum firm prices inclusive of all prevailing taxes, duties and other levies for the SERVICES part comprising of unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, final painting at site, trial run at site, and carrying out performance guarantee/Functional/Demonstration tests at site (As applicable), training of customer/client O&M staff (as applicable) & final handing over to end customer in flawless condition for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.		Lot	1														
2.3	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee as per tender technical specification above, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure-1).		Lot	1														

Prices for consideration before filling above price schedule:-

1. PRICES SHALL BE FIRM UNLESS OTHERWISE SPECIFICALLY INDICATED IN NIT.

2. Vendor to mention HSN Code in specific Column for each item of BOQ.

3. In case of discrepancy in GST rate corresponding to HSN code and quoted GST, the evaluation shall be done on quoted price and correct GST rate shall be considered for ordering (limited to quoted FOR Site price)

4. Unless the context requires otherwise, in all tenders and tender related documents any reference to taxes such as ED, CST/VAT, Services, Tax etc. shall refer to GST as implemented by GOI w.e.f. 1.07.2017.

5. CGST/SGST/UTG/GST shall be paid at actuals against documentary evidence but restricted to the amount and percentage in the order/contract.

6. In case, any GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry to timeline prescribed in the relevant Act for availing such ITC, or any other reasons not attributable to BHEL, tax amount shall be recoverable from the vendor/contractor along with interest levied/leviable on BHEL.

7. All taxes and duties other than CGST/SGST/UTG/GST shall be deemed to be included in the Ex-Works prices unless specified otherwise by the bidder in the price bid. No variation in other taxes and duties shall be payable by Purchaser.

8. Evaluation shall be done on the basis of total lump sum prices for complete supply and services.

9. Vendor to quote prices in words also.

10. Nature of GST on Services at project site shall not be allowed to change after bidding.

11. In case of discrepancy in GST rate corresponding to HSN code and quoted GST, the evaluation shall be done on quoted price and correct GST rate shall be considered for ordering (limited to quoted FOR Site price)

12. Bidder to note that GST rate on freight shall be same as GST rate on E&C

13. In case applicable rate of GST is more than one rate, please provide item wise breakup in attached format ANNEXURE-A only.

14. Total Ex-Works quoted for supply should be the same as total quoted in Annexure-A&I. In case of any discrepancy in total ex-works, lower total price (item wise breakup adjusted accordingly) will be considered for evaluation as well as ordering.

**Particulars of bidder / authorised representative**

Name	Designation	Signature	Date	Company Seal
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**2X800 MW DARLIPALI STPP - Mill Reject Handling System**

**ANNEXURE-I**

**MANDATORY SPARES SUPPLY**

S.No.	Details of Works or Equipment/System	Total Quantity for Two units	HSN Code (To be filled by the bidder)	TOTAL EX- WORKS PRICE INCLUDING P&F (INR)	GST Rate %	GST (INR)	Type of GST (IGST/CGST + SGST/UTGST)
	<b>Lumpsum prices</b>						
1	<b>Mill Reject Handling System</b>						
	<b>A. Pneumatic Conveying System</b>						
	1. Conveying System Spares						
	a) Pneumatic main valves	4 sets of each type					
	b) Pneumatic/Solenoid Two/ Three position control valve	4 sets of each type					
	c) Plate/Dome valve(including seals) with Actuators (pneumatic/hydraulic)	6 nos.					
	d) Plate/Dome valve seals	6 sets					
	<b>B. Compressors (Reciprocating type, if applicable)</b>						
	1. Compressor	1 no of each					
2	<b>MEASURING INSTRUMENTS (for all systems including Air Compressor, Auxiliary Boiler, FOPH, Dosing System, ECW System etc.)</b>						
	1. Electronic Transmitters						
	1.1 Transmitters of all types, ranges and model no. (for the measurement of Pressure, differential pressure flow, level, etc.)	10% or 1 no. of each type and model whichever is more					
	1.2 Level Transmitters (Ultrasonic/ radar type)	50% of each type and length, including sensors					
	2. Temperature elements						
	2.1 RTD's* of each type and length(with head assembly, terminal block & nipple)	10% or 2 nos. of each type and length, whichever is more					
	2.2 Thermocouples of each type like K-type, R-type, metal etc. * (with head assembly, terminal block & nipple)	10% or 2 nos. of each type and length which ever is more					
	2.3 Thermowell for application like mill outlet temperature and SH/RH/Eco/ flue gas temp. in furnace	10% or 2 nos. of each type and length whichever is more					
	2.4 Temperature transmitters	10% of each type and length					
	3. Local Indicators like temperature gauges, pressure gauges, differential pressure gauges, flow gauges, flow meters etc.,	5% or 1 no. of each make, model and type whichever is more (to be divided to various ranges in proportion to main of all make, model, type population)					
	4. Process Actuated Switch Devices Includes all types of Pressure, differential pressure, flow, temperature, differential temperature, level switch Devices	5% or 1 no. of each type and model whichever is more					
3	<b>PROCESS CONNECTION PIPING (FOR IMPULSE PIPING/TUBING, SAMPLING PIPING / TUBING AND AIR SUPPLY PIPING AS APPLICABLE)</b>						
	1. Valves of all types and models	10% or 1 no. of each type, class, size and model whichever is more.					
	2. 2 way, 3way, 5way valve manifolds	10% or 1 no. of each type, class, size and model whichever is more.					
	3. Fittings	10% or 1 packet of each type, class, size and model whichever is more.					
	4. Purge meters	5% of each model or 1 no. whichever is more.					
	5. Filter regulators	20% of each model or 2 nos. whichever is more.					
4	<b>INSTRUMENTATION CABLE, INTERNAL WIRING &amp; ELECTRICAL FIELD</b>						
	1. Pre fabricated cable of each type.	10% of installed quantity					
	2. Pre fabricated cable connector of each type	10% or 1 no. of each type and model, whichever is more.					
	3. Other cables	5% of each type, pair and size of actual installed quantity					
5	<b>CONTROL VALVES, ACTUATORS &amp; ACCESSORIES</b>						
	1. Pneumatic and electro-hydraulic actuator assembly	10% or 1 no. of each type, model and rating, whichever is more					
	2. Valve trim (including cage, plug, stem, seat rings, guide bushings etc.)	1 set for each type of control valve,					
	3. Diaphragms, O' rings, seals etc. of all types, make etc.	200%					
	4. Pressure Gauges of all types, make, rating etc.	10% or 2 nos. of each type whichever is more.					
	5. Solenoid Valve(if Applicable)	10% or 2 nos. of each type whichever is more.					
	6. Positioner units (complete unit)	10% or 1 no. of each type whichever is more.					
	7. Pneumatic air-filter/ Regulator of each type, make, rating etc.	10% or 2 nos. whichever is more.					
	8. Air lock relays	10% or 2 nos. of each type whichever is more.					
	<b>GRAND TOTAL</b>					NA	NA

a) Unless stated otherwise, a 'set' means item or sub-items required for each type/ size, range of assembly/ sub- assembly required for complete replacement in one equipment system; It is further intended that the assembly/ sub-assembly which have different orientation (like left hand or right hand, top or bottom), different direction of rotation or mirror image positioning or any other reasons which result in marinating two different sets of spares to be used for subject assembly/ sub assembly, these shall be considered as different type of assembly/ sub assembly.

b) Wherever quantity has been specified as percentage(%), the quantity of mandatory spares to be provided by the vendor shall be the specified percentage (%) of total population required to meet the specification requirements. In case the quantity of mandatory spares so calculated happens to be in fraction, the same shall be rounded off to next higher whole number.

c) Wherever the quantities have been indicated for each type, size, thickness, material, radius, range etc, these shall cover all the items supplied and installed and the breakup of these shall be furnished by the vendor during detail engineering.

d) In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to the offered design with quantities generally in line with the approach followed in the above list.

e) Wherever bidder has indicated an item as not applicable, the same will have to be supplied free of cost, in case it is found applicable during detail engineering.

*Outdated*

ANNEXURE-A						
NAME OF		2X800 MW DARLIPALI STPP				
NAME OF		MILL REJECT SYSTEM (PNEUMATIC TYPE)				
TECHNICAL SPECIFICATION		PE-TS-403-160-A001				
S. No.	DESCRIPTION	HSN Code (To be filled by the bidder)	Total Ex-works duly packed (INR)	GST Rate %	GST (INR)	Type of GST (IGST/CGST + SGST/UTGST)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
Total		NA		NA		NA
<b>Points for consideration before filling above price schedule-</b>						
1. During detailed engineering, If any additional item(s) except listed (by bidder) above is / are required to complete the system, bidder have to supply the same without any cost implication to BHEL.						
<b>Particulars of bidder / authorised representative</b>						
Name	Designation	Signature	Date	Company Seal		

*Gulindal*

**GUARANTEED POWER CONSUMPTION FORMAT**  
**2 x 800 MW DARLIPALI STPP - Mill Reject Handling System**

Mode: Pneumatic Conveying

Sl.No	Description / Item	Working	Standby	Power Consumption (KW) (at motor input terminal)	Duty Factor	Total Power Consumption (KW)
1	2	3	4	5	6	7 = 3 x 5 x 6
1	Conveying Air Compressor	1	1		0.50	
<b>Total KW</b>						

**Notes**

1	Power consumption (KW) of air compressors shall be measured at motor input terminals when operating at the rated capacity and pressure and performed on test rig at the vendor's works and actual motor shall be used for this purpose.
2	The base auxiliary power is 85 KW. Quoted power by bidder at column no. (7) shall be evaluated with respect to base auxiliary power. For bid evaluation purpose, excess power quoted by bidder over base auxiliary power, shall be loaded with 2258 USD per KW (USD conversion rate shall be taken as defined in NIT).
3	Power quoted by bidder shall be termed as 'Guaranteed Power consumption' (GPC) and bidder shall be liable to demonstrate compliance to GPC value during PG test/ Demonstration test at site. If the actual power consumption exceeds the guaranteed power consumption, liquidated damages shall be payable by the contractor at the rate of 2258 USD per KW excess power consumption, over the guaranteed power consumption indicated by bidder in his bid. Such liquidated damages may be recovered by the BHEL by deduction from the contract price or by enforcing the contract performance guarantee or in any other manner deemed fit by the BHEL. For this purpose, the drives of standby equipment shall not be considered.

*Chandra Das*

**PRICE FORMAT FOR INDIAN BIDDERS**  
**2X800 MW DARLIPALI STPP SG**

**ANNEXURE II**

**CIF CONTENT - MILL REJECT SYSTEM (PNEUMATIC TYPE)**

Enq No :

Sl No.	Description of Equipment / Item	Unit	Qty	Currency	Unit Rate in Foreign Currency	Total CIF value in foreign currency
1						
2						
3						
4						
5						
6						
					<b>Total CIF value of items</b>	
<b>Notes:</b>						
1.0	Bidder's quoted price in various schedules shall be inclusive of above total price for import component.					
2.0	Bidder shall furnish item-wise break-up of imported items for which bidder wish to avail concessional duty in above table.					
3.0	Bidders to indicate the list of items and CIF value in above table. The total CIF content quoted in foreign currency shall be converted in equivalent INR. Essentiality certificate shall be issued by NTPC through BHEL for the items to be imported by the vendor for specified items, limited to CIF content which will be intimated before RA/PBO for availing concessional custom duty.					
4.0	For conversion of foreign currency to equivalent INR, exchange rate of P1 opening date shall be considered as per clause no. 19.3 of instructions to bidders of GCC Rev06.					





2X800 MW DARLIPALI STPP - Mill Reject Handling System											
ANNEXURE-I											
MANDATORY SPARES SUPPLY											
S.No.	Details of Works or Equipment/System	Total Quantity for Two units	HSN Code (To be filled by the bidder)	IMPORTED ITEMS ( Supply not from Indian Territory)				INDIGENEOUS ITEMS (Supply from Indian Territory)			
				Total C&F Price (including seaworthy packing)	Custom Duty (...%) after availing input tax credit (INR)	IGST RATE IN %	IGST(IN INR)	TOTAL EX-WORKS PRICE INCLUDING P&F (INR)	GST Rate %	GST (INR)	Type of GST (IGST/CGST + SGST/UTGST)
<b>Lumpsum prices</b>											
1	Mill Reject Handling System										
<b>A. Pneumatic Conveying System</b>											
1. Conveying System Spares											
	a) Pneumatic main valves	4 sets of each type									
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	c) Plate/Dome valve(including seals) with Actuators (pneumatic/hydraulic)	6 nos.									
	d) Plate/Dome valve seals	6 sets									
<b>B. Compressors (Reciprocating type, if applicable)</b>											
	1. Compressor	1 no of each									
2	<b>MEASURING INSTRUMENTS</b> (for all systems including Air Compressor, Auxiliary Boiler, FOPH, Dosing System, ECW System etc.)										
1. Electronic Transmitters											
	1.1 Transmitters of all types, ranges and model no. (for the measurement of Pressure, differential pressure flow, level, etc.)	10% or 1 no. of each type and model whichever is more									
	1.2 Level Transmitters (Ultrasonic/ radar type)	50% of each type and length, including sensors									
2. Temperature elements											
	2.1 RTD's* of each type and length(with head assembly, terminal block & nipple)	10% or 2 nos. of each type and length, whichever is more									
	2.2 Thermocouples of each type like K-type, R-type, metal etc. * (with head assembly, terminal block & nipple)	10% or 2 nos. of each type and length whichever is more									
	2.3 Thermowell for application like mill outlet temperature and SH/RH/Eco/ flue gas temp. in furnace	10% or 2 nos. of each type and length whichever is more									
	2.4 Temperature transmitters	10% of each type and length									
	3. Local indicators like temperature gauges, pressure gauges, differential pressure gauges, flow gauges, flow meters etc.,	5% or 1 no. of each make, model and type whichever is more (to be divided to various ranges in proportion to main of all make, model, type population)									
	4. Process Actuated Switch Devices Includes all types of Pressure, differential pressure, flow, temperature, differential temperature, level switch Devices	5% or 1 no. of each type and model whichever is more									
3	<b>PROCESS CONNECTION PIPING (FOR IMPULSE PIPING/TUBING, SAMPLING PIPING / TUBING AND AIR SUPPLY PIPING AS APPLICABLE)</b>										
	1. Valves of all types and models	10% or 1 no. of each type, class, size and model whichever is more.									
	2. 2 way, 3way, 5way valve manifolds	10% or 1 no. of each type, class, size and model whichever is more.									
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	4. Purge meters	5% of each model or 1 no. whichever is more.									
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4	<b>INSTRUMENTATION CABLE, INTERNAL WIRING &amp; ELECTRICAL FIELD</b>										
	1. Pre fabricated cable of each type.	10% of installed quantity									
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5	<b>CONTROL VALVES, ACTUATORS &amp; ACCESSORIES</b>										
	1. Pneumatic and electro-hydraulic actuator assembly	10% or 1 no. of each type, model and rating, whichever is more									
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	7. Pneumatic air-filter/ Regulator of each type, make, rating etc.	10% or 2 nos. whichever is more.									
	8. Air lock relays	10% or 2 nos. of each type whichever is more.									
TOTAL			NA				NA		NA		NA
<b>NOTES:</b>											
a)	Unless stated otherwise, a 'set' means item or sub-items required for each type/ size, range of assembly/ sub-assembly required for complete replacement in one equipment system; it is further intended that the assembly/ sub-assembly which have different orientation (like left hand or right hand, top or bottom), different direction of rotation or mirror image positioning or any other reasons which result in marinating two different sets of spares to be used for subject assembly/ sub assembly, these shall be considered as different type of assembly/ sub assembly.										
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c)	Wherever the quantities have been indicated for each type, size, thickness, material, radius, range etc, these shall cover all the items supplied and installed and the breakup of these shall be furnished by the vendor during detail engineering.										
d)	In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to the offered design with quantities generally in line with the approach followed in the above list.										
e)	Wherever bidder has indicated an item as not applicable, the same will have to be supplied free of cost, in case it is found applicable during detail engineering.										

*Gurudal*

ANNEXURE-A						
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4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
Total		NA		NA		NA
<b>Points for consideration before filling above price schedule-</b>						
1. During detailed engineering, if any additional item(s) except listed (by bidder) above is / are required to complete the system, bidder have to supply the same without any cost implication to BHEL.						
<b>Particulars of bidder / authorised representative</b>						
Name	Designation	Signature	Date	Company Seal		

*Gurudal*

<b>GUARANTEED POWER CONSUMPTION FORMAT</b> <b>2 x 800 MW DARLIPALI STPP - Mill Reject Handling System</b> <b>Mode: Pneumatic Conveying</b>						
SI.No	Description / Item	Working	Standby	Power Consumption (KW) (at motor input terminal)	Duty Factor	Total Power Consumption (KW)
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1	Conveying Air Compressor	1	1		0.50	
					<b>Total KW</b>	
<b>Notes</b>						
1	Power consumption (KW) of air compressors shall be measured at motor input terminals when operating at the rated capacity and pressure and performed on test rig at the vendor's works and actual motor shall be used for this purpose.					
2	The base auxiliary power is 85 KW. Quoted power by bidder at column no. (7) shall be evaluated with respect to base auxiliary power. For bid evaluation purpose, excess power quoted by bidder over base auxiliary power, shall be loaded with 2258 USD per KW (USD conversion rate shall be taken as defined in NIT).					
3	Power quoted by bidder shall be termed as 'Guaranteed Power consumption' (GPC) and bidder shall be liable to demonstrate compliance to GPC value during PG test/ Demonstration test at site. If the actual power consumption exceeds the guaranteed power consumption, liquidated damages shall be payable by the Contractor at the rate of 2258 USD per KW excess power consumption, over the guaranteed power consumption indicated by bidder in his bid. Such liquidated damages may be recovered by the BHEL by deduction from the contract price or by enforcing the contract performance guarantee or in any other manner deemed fit by the BHEL. For this purpose, the drives of standby equipment shall not be considered.					

