



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:PSC-M1443:TCN-01

Date: 13/02/2013

Sub	Tender change notice (TCN) 01	
Job	Transportation of Consignments from Various Manufacturing Units of BHEL to Punatsangchhu HEP with intermediate storage facility in Bhutan for 6 X 200 MW Punatsangchhu-I Hydroelectric Project, Punatsangchhu, Bhutan .	
Ref	1.0	Tender no PSER:SCT:PSC-M1443:13
	2.0	BHEL's NIT, vide ref no PSER:SCT:PSC-M1443:13 Dated 08/02/2013
	3.0	Other references (if any).

With reference to above, following points , relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Please note that there are some consignments to be lifted from BHEL, Bangalore & Jhansi for transportation directly upto Punatsangchhu site. List of packages are listed in attached Annexure-III & IV.
- 2.0 Please find attached Modified Technical Specification & Special Condition of contract. Vol-IF Rev-01.
- 3.0 Revised Volume-III , Price Schedule , Rev-1 superseding earlier version Revised Price schedule format VOL-III- Price Schedule , Rev-00 .
Bidders are requested to submit their offer as per revised Price Schedule (Rev-01) only . Offer from bidders in superseded price schedule (Vol-III , REV-00) shall not be considered. Bidders are also requested to submit a declaration in techno-commercial offer that they have submitted their price bid in sealed envelope as per REVISED price schedule format (VOL-III; PRICE SCHEDULE, REV-01) .
- 4.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached Format only .
- 5.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

1. Revised 'No deviation certificate' format.
2. Revised VOL-IF Rev-01(Technical Specification & Special Condition Of Contract)
3. Vol-III Rev-01 .

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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Technical Specifications

&

Special Conditions of Contract

For

**Transportation of Consignments from Various Manufacturing Units of BHEL to Punatsangchhu HEP
with intermediate storage facility in Bhutan**

For

**6X200 MW Punatsangchhu-I Hydroelectric Project,
Punatsangchhu, Bhutan.**

Doc. No.

BHEL

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CHAPTER 1

1.1 General Information

PHPA is setting up 6X200 MW Hydro-electric Power Plant at Punatsangchhu, Bhutan. Bharat Heavy Electricals Limited (BHEL) has been awarded EPC contract for this power plant. Punatsangchhu HEP is a green field project. The present order is to install 6 Units of 200 MW each in phase -I. The project has made initial advancement & presently enabling jobs have started. Feasibility of transportation of consignments has been envisaged based on Preliminary logistic study has been carried out by a reputed Logistic vendor from Phuentsholing To Punatsangchhu HEP. Actual Route survey has to be conducted by the bidder before submitting tender.

The location & other details of Punatsangchhu HEP site is as under:

Site Address:

6X200MW PUNATSANGCHHU-1 HYDRO ELECTRIC PROJECT SITE, WANGDUE PHODRANG DZONGKHAG, BHUTAN

The Road network to project site in Bhutan shall be as follows: Phuentsholing – Gedu -Chukha-Cimakoti - Tanalum - Damchu- Chuzom - Semtokha- Hongtsho- Dochula-Lamperi – Lumitsawa – Mendrelgang - Mitshina-Project site. The distance between Phuentsholing and Project site is 256.8KM.

Further to the information's given in this section, Bidders are also advised to visit the project site and collect data on local site conditions.

1.2 Intent of specification

This specification is intended to cover (A) Transportation of all materials listed in Annexures - I, IIA, IIB, III & IV from various BHEL MUs i.e. Bhopal, EDN Bangalore & Jhansi - to Phuentsholing (B) custom clearance of all the export consignments reaching Phuentsholing Border from various BHEL MUs i.e. Bhopal, EDN Bangalore & Jhansi & (C) transportation of all the consignments with or without Storage in Bhutan to Punatsangchhu site including construction/arrangement of storage facility at Phuentsholing or nearby area in Bhutan. There are two categories of Consignments for the purpose of transportation: (i) Category – I for ODC (as per Annexure – I) for which transportation in Hydraulic trailer has been envisaged and (ii) Category – II for Non-ODC (as per Annexure – IIA, IIB, III & IV) for which transportation is envisages in trucks/trailers.

- (i) For Category – I – specification covers transportation of OD consignment as per Annexure-I from Bhopal Unit to Indo-Bhutan border (Jaigaon/ Phuentsholing), custom clearance of OD consignments at Bhutan Border, Storage of consignments at storage place at Phuentsholing or nearby area in Bhutan, survey of route from Storage place to Project site, & transportation of OD consignments to Punatsangchhu site after removing the obstacles en-route based on route survey.
- (ii) For Category - II - specification covers transportation of Non-OD consignment as per Annexure- IIA, IIB, III & IV from Bhopal, EDN Bangalore & Jhansi Unit to Indo-Bhutan Border (Jaigaon/ Phuentsholing), custom clearance of all the consignments at Bhutan Border, transportation of consignments as per Annexure – II A, III & IV directly to Punatsangchhu site, Storage of consignments as per Annexure – II B at storage place at Phuentsholing or nearby area in Bhutan & further transportation of consignments as per Annexure – II B to Punatsangchhu site.

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CHAPTER 2

2.1 Scope of work

BHEL is supplying Power Plant Equipment for 6 X 200 MW **Punatsangchhu Hydro-Electric Power Plant, Punatsangchhu, Bhutan**. All the export Consignments shall be transported from various BHEL MUs i.e. Bhopal, EDN Bangalore & Jhansi to Punatsangchhu project site after custom clearance at Indo-Bhutan Border with intermediate storage of identified consignments as per Annexure – I & IIB at Phuentsholing or nearby area in Bhutan. Identified Over Dimensional Consignments will be transported in Hydraulic trailer as per extant Rule, where as Non-ODC may be transported in suitable trucks/mechanical trailer/Taurus etc as per regulations.

The “Scope of work” shall be on the basis of bidder’s seamless responsibility completely covering the obligations, responsibility and work / service covered under this Tender whether implicit or explicit. Bids not covering the entire “Scope of work” shall be treated as incomplete and shall be liable for rejection.

The scope of work will consist of but may not be limited to the following indicated jobs:-

2.1.0 The scope of work will be

- (i) Transportation of consignments as Annexure – II A directly from BHEL-Bhopal to **Punatsangchhu** site in Bhutan after clearances like custom, sale tax etc. at Indo-Bhutan Border.
- (ii) Transportation of consignments as Annexure – III directly from BHEL-EDN Bangalore to **Punatsangchhu** site in Bhutan after clearances like custom, sale tax etc. at Indo-Bhutan Border.

- (iii) Transportation of consignments as Annexure – IV directly from BHEL-Jhansi to **Punatsangchhu** site in Bhutan after clearances like custom, sale tax etc. at Indo-Bhutan Border.
- (iv) Transportation of consignments as Annexure – I & Annexure – II B from BHEL-Bhopal to storage area at **Phuentsholing** or nearby area in Bhutan after clearances like custom, sale tax etc at Indo-Bhutan Border & further transportation of all the consignments from storage area to Punatsangchhu site after clearance from BHEL and hand over the materials to BHEL site.
- (v) Construction / Arrangement of storage facility of 7250 sq.-meter open area and 750 sq.-meter of semi-covered area for storage of materials at **Phuentsholing** or nearby area in Bhutan. Unloading / Loading, Handling/ transshipment, storage & preservation of consignments as per the guidelines of BHEL.

2.1.1. **Custom clearance** :

The following jobs are to be carried out by the agency through reputed CHA, who has experience in handling Engineering goods, aware of custom procedures and familiar with clearance under project Imports/Exports for custom clearance of export items as per Annexure – I, Annexure – II A, Annexure – II B, Annexure – III & Annexure – IV.

- 2.1.1.1. BHEL will arrange all the documentation required for custom clearance like invoice, packing list etc. The Contractor will have to collect the export documents like invoice & packing list from respective BHEL MUs office and file the same with **Jaigaon / Phuentsholing** customs. The Contractor will also be responsible for permissions and necessary co-ordination with respective BHEL MUs for examination/ endorsement by Local Excise and sealing for export if required. Excise clearance will be done by the respective BHEL MUs.

- 2.1.1.2. Contractor will also complete all vehicle/trailer/Puller related custom formalities, if any.
- 2.1.1.3. Complete customs activity at the Bhutan border/ entry point will have to be done in advance by the transporter so that the truck/ trailers carrying cargo are not detained anywhere. The detention of truck/ trailers is not payable at this point. The other activities include:
- a) Endorsements from customer of any form required for customs clearance at Jaigaon / Phuentsholing border.
 - b) Collection of duty, VAT, AIT, DSC from customer and payment to customs if any.
 - c) Collection of D.O. from the shipping/transport company, if required.
 - d) All Customs Clearing activities from Bhutan/Indian customs.
 - e) Co-ordination with site incharges for receipt of material.
 - f) Endorsement of original ARE-1/ export invoice and other documents by customs
- 2.1.2. Compliance of statutory & other related implications will be to the Bidder's account. The Contractor will have to follow all local Transportation and other rules/ acts in India and in Bhutan in transporting the cargo without any liability to BHEL and indemnify BHEL towards any mishap/claims while undertaking the work
- 2.1.3. Carry-out the survey of
- a) Area for construction / Creation of storage place at Phuentsholing or nearby area in Bhutan.
 - b) Route from BHEL MUs i.e. Bhopal, EDN Bangalore & Jhansi to site with emphasis from Phuentsholing

to Punatsangchhu site identifying hurdles requiring removal for the transportation of the listed consignments. Any remedial action for overcoming of difficulties/obstacles en-route from Phuentsholing to Punatsangchhu site during transportation is to be carried out by bidder within the quoted price.

- 2.1.4. The Contractor will be responsible for arranging appropriate vehicles - Trucks/ mechanical trailers/ Taurus / hydraulic trailers to carry the expected consignments to be loaded at Bhopal/ EDN Bangalore/ Jhansi/ storage area in Bhutan. The vehicle to be used for overseas land transportation will be as per permission and laws in **Bhutan**. Transporter will also ensure proper securing/ lashing of cargo on Trucks/ Trailers and safe Transportation till the site.
- 2.1.4.1. The Contractor will be responsible for all necessary permission for driver/ person to visit Phuentsholing, Punatsangchhu project site in Bhutan and road transportation permit by Road Safety and Transport Authority for the transportation of project cargo to the site.
- 2.1.5. Storage of consignments of Annexure –I & Annexure – II B shall be in the Bidder's scope.
- 2.1.5.1. The Contractor to have their own/ hired storage facility at **Bhutan** border for intermediate storage of consignments mentioned in Annexure-I & Annexure-II B along with suitable facilities to unload and load the cargo. Bidder will be fully responsible for all legal and financial transaction with the owner of land for construction/creation of storage. Proof of ownership / lease / hiring of land for storage as per storage specification must be submitted to BHEL. Readiness of storage shall be inspected & cleared by BHEL
- 2.1.5.2. Storage Specification:

- (a) Total storage area will be measuring tentatively 7250 Sq. Meter open area & 750 sq. Metre semi-covered area or actual required for material listed & attached.
- (b) Gate for Entrance: Provision of entry gate suitable for truck/trailer/crane/hydra to enter.
- (c) Fencing: Barbed wire/Chain link (height at least 1.25 meter).
- (d) Earth work if necessary : Suitable excavation, filling, compaction, levelling , grading, hard surfacing as per requirement.
- (e) Drainage system. Drains/ periphery to the entire satisfaction of BHEL/customer to prevent water logging around storage area.
- (f) Internal Road: The internal road inside storage yard is to be connected with existing approach road. The Store area shall be cleared of all vegetation, scrap and debris.
- (g) Round the clock Security arrangement with security post at the gate of store from registered security agency of Bhutan.
- (h) Lighting & illumination arrangement in the entire store area with back-up power from DG set. Installation & supply of Light fixtures, internal & external cabling, power sockets, Exhaust fans, Energy meter etc.
- (i) Arrangement of wooden / concrete sleepers for placement of all materials / equipments below all items to be stored .All items to be stored minimum 8" above the ground level with the help of sleepers.
- (j) A small furnished AC office room of around 12'X10' & toilet 7'X5' including septic tank, drinking water tank for BHEL material Management supervisor in the form of permanent nature/furnished container/pota cabin within the premises. Sewerage connection for the toilet along with water connection to be provided. Permission for Electrical connection is to be arranged by bidder from external agency.
- (k) Arrangement of necessary Material Handling Equipment / facility with manpower , T & P along with

- (i) One crane of 40T capacity or crane suitable for handling non-ODC items.
 - (ii) One crane of 75T capacity or crane suitable for handling ODC items on as and when required basis for items of heaviest consignment as mentioned in the list attached.
 - (iii) One no of Hydra of 12T/14T capacity on continuous basis.
 - (iv) Any other material handling equipment, T & P required for handling listed items as per tender.
- (l) Semi covered store as following:
 Tentative Area: 750 sq. Meter.
 Height : 5.5 m or suitable for unloading of material from truck/tailor
 Covered with : CGI sheet shed covering.
 Flooring to be Plain Cement Concrete.
 Material like Turbine shaft, Turbine runner, generator shaft etc. mentioned in the list will be kept under this shed with wooden sleeper of 8" height from floor.
 All Wooden sleepers are to be covered with polythene sheet before placement of any item on it.
 Side wall may be covered suitably with CGI sheet from top 1 m & bottom 1 m height.
- (m) The surfacing of total store area to be made suitable for easy movement of crane during all season.
 - (n) Land for intermediate storage should be away from land slide area and should not be adjacent to water source like river etc. so that any effect of natural calamities like flood etc, if any, can be avoided.
 - (o) Necessary manpower for store keeping / preservation of materials is to be arranged.
 - (p) The storage facility will be maintained up to Dec.'2015 or till exit of last stored item from store.

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- 2.1.6. Ensure appropriate storage & preservation including maintenance, packing/repacking etc of consignments, as required, during storage, transit etc., or for all consignments including ODCs mentioned above, as per BHEL guidelines till receipt of those items at site.
- 2.1.7. Transfer/Transshipment of the ODC items during loading/unloading on to / from the trailer, properly placing/ holding/tying/fastening/lashing/securing the consignment on the Trailer including arranging material for tying/fastening/lashing/securing shall be in Bidder's scope wherever required including at storage area. The Contractor shall be responsible for safe transshipment of consignments from the Indian Registration Truck/ Trailers to **Bhutan** Truck/ Trailers using appropriate cranes/ equipment.
 - 2.1.7.1. The Contractor shall be responsible for registration of the contract with the **Bhutan** Authorities for all types of taxes to be paid by the transporter for the work done by them/ agents in **Bhutan**.
 - 2.1.7.2. The Contractor shall be responsible for getting endorsements on the relevant documents from relevant authorities, including BHEL Site representatives, upon delivery of the cargo is to be obtained. The consignments are to be delivered at the designated place at site.
- 2.1.8. Arrange suitable Security/Escort/Watch and Ward in adequate numbers at the storage and en-route from starting point to the destination point at Punatsangchhu site .

- 2.1.8.1. Arrange necessary Material Handling Equipment/facility, suitable manpower and illumination for safe loading / unloading / handling of Consignments at storage / anywhere en-route / contingency purpose etc.
- 2.1.9. BHEL representative reserves the right for inspection of any or all operation during transportation, loading/unloading/trans-shipment/storage /preservation/packing/repacking/lifting/shifting etc and the bidder will be permitted to proceed with their further program after obtaining clearance from BHEL for the preceding activity, in case BHEL intends to carry out such inspection.
- 2.1.10. Obtain necessary permissions/clearances from all concerned Authorities both in India & Bhutan for transportation of all the consignments as per Annexure – I, Annexure – II A, Annexure – II B, Annexure – III & Annexure – IV.
- 2.1.11. Obtain all required clearances / permit from all governmental / non-governmental authorities e.g. NHAI, PWD/CPWD, State Electricity Board, Railways, Communication Department, P&T, Traffic, Police Department or any other authority, including private parties / persons/ organisations for transportation of all the consignments including ODC through identified inland road transport route at appropriate time and submit to BHEL for clearance for transportation of equipment. No transportation of equipment shall be undertaken by contractor without clearance from BHEL.

- 2.1.12. Provide escort during entire transportation from starting point till Punatsangchhu site with every ODC who shall apart from his other responsibilities be also responsible to take care of sidewise and overhead clearance while travelling through towns/crowded localities and cities on the route. Bidder to avoid passing through such places as far as possible while selecting the route and if necessary the journey plan to be done during night in order to minimize inconvenience to the public.
- 2.1.13. Arrange for tarpaulin, rope, wooden or steel sleepers etc for protecting the consignments from weather / rain right from receipt of the consignment till delivery at site including at storage.
- 2.1.14. The Contractor shall take all due care for protecting the consignments from rains and be responsible for their safe and sound condition during his possession and the vehicles carrying such consignments shall be suitably equipped for the same. The Contractor shall take all due care of consignments, follow instructions given on the package, special instructions if any by supplier while loading and unloading of the cargo. During transshipment he shall provide all packing and lashing at his own cost.
- 2.1.15. Finalise and adhere to the entire transportation schedule so as to meet the project schedule requirement.
- 2.1.16. In case of any damage/disruption to the consignments including ODC en-route, the bidder will ensure appropriate action for retrieval / recovery.

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- 2.1.17. Coordinate damage assessment / certification, reporting, lodging First Information Report with local governmental authorities, to coordinate with all concerned including Insurance Surveyor and take all necessary steps at once in order to secure the rights of Owner / Insurer.
- 2.1.18. Any transshipment/loading/unloading of any ODC item has to be done in presence of BHEL representative.
- 2.1.19. The approximate weight and dimension is enclosed as Annexure – I, Annexure – II A, Annexure – II B, Annexure – III & Annexure – IV. Please note that the weights and sizes given in Annexures are indicative and for guidance to the bidder. The actual Dispatch particulars may vary and shall be known at an appropriate stage from BHEL. Bidder shall not claim any compensation from BHEL towards such variation in actual Dispatch particulars of Consignments including ODCs with ref to tender information.
- 2.1.20. Based on the particulars of consignments given at Annexure – I, Annexure – II A, Annexure – II B, Annexure – III & Annexure – IV, bidder shall finalize and submit with offer the description of transport to be used for handling and shifting the Consignments including ODCs from starting point to Punatsangchhu site. Bidder shall also specify the type/rating/spec and number of transport as well as handling equipment to be used for this complete operation.
- 2.1.21. Transporters shall ensure that the consignments are tracked continuously and a daily position of the consignment is provided to BHEL.

- 2.1.22. Priority of dispatch of consignments shall be given by BHEL.
- 2.1.23. Bidder shall be allowed to use only those T&P and hardware, which is in excellent working condition, tested for safe operation and adequate in capacity and size..
- 2.1.24. T&Ps and trailers to be put in to use shall have valid fitness certificate from concerned authorities and required documents issued by government /road transport authorities for the proposed use.
- 2.1.25. Bidder shall ensure that all the consignments including ODC is properly lashed / bedded /secured during handling, storage, loading and transportation. Bidder shall not be relieved from any responsibility thereof. The representative of BHEL shall have the right to stop Bidder in case of unsafe operations or for such operation which may lead to unsafe operation.
- 2.1.26. Bidder shall arrange and complete the cargo's examination whenever required. It shall be the endeavor of bidder to minimize the opening of the packed consignment. Opening and repacking (wherever required) shall be carried out as per the supplier's manual, under the supervision of BHEL or their authorized representative, and the same shall be in bidder's scope of work.

- 2.1.27. Bidder shall arrange suitable wooden, steel and concrete sleepers, pedestals, stools, winch, temporary supports rollers and guides etc. required for receiving, storing, handling and transporting the said cargo. This requirement will exclude any special handling & transportation structure provided by BHEL.
- 2.1.28. Bidder will work round the clock at the storage / en-route anywhere, as required. Bidder shall ensure the timely availability of required quantity of manpower with proper experience, tools and plants at all the places where such activities are to be carried out.
- 2.1.29. Bidder shall take receipt for safe delivery of consignment from BHEL or their authorized representative at Punatsanchhu site.
- 2.1.30. The cost of liaison and coordination with all concerned authorities will be to bidder's account.
- 2.1.31. Any non-specific service item, which is necessary for satisfactory completion of the work under the scope but not specified here, shall be deemed to be included in scope of work at no additional cost to BHEL.
- 2.1.32. Bidder shall own all risks and responsibility from the time of taking over the cargo / consignment at the starting point till safe delivery at Punatsangchhu site and taking over by BHEL or their authorized representative there at site.

Bidder should ensure safe custody of materials during transportation and storage, if any, en-route from Starting point to Punatsangchhu site. However, Project Insurance will be taken by BHEL for the entire cargo.

If due to Contractor's carelessness, negligence, non-observance of safety precautions, improper security arrangements or due to non-compliance of paper work needed for lodging insurance claim, damage to BHEL/its Customer's property, and if BHEL is unable to recover its claim from the Insurance Company, the deficit will be recovered from the Contractor.

- 2.1.33. Bidder shall submit the progress report to BHEL or their authorized representative as per the format to be mutually agreed. Bidder shall submit daily progress report indicating the receipt / dispatch status at starting point / storage / Road repair etc , movement status of various trailers as on date, constraints if any, etc, along with plan for next 3 days.
- 2.1.34. All necessary statutory, legal and safety requirements shall be complied by the bidder and the bidder shall indemnify BHEL and Owner from any liability on any account caused due to non compliance of statutory, legal and safety norms of the Government of India or any of the State Governments.
- 2.1.35. Bidder shall use every reasonable means to prevent any of the highways, bridges, or any public/private utility etc. traversed in connection with or on the routes to Punatsangchhu site from being damaged or injured by

any of their trailers / trucks and in particular shall select the routes, choose and use vehicles and restrict and distribute loads so that any such extraordinary traffic as will inevitably arise for moving ODC to site shall be limited as far as reasonably possible and no unnecessary damage or injury may be occasioned to such highways, bridges etc. For any damage caused by the breach thereof, the Bidder shall be solely responsible.

- 2.1.36. Bidder shall depute at least one competent person with all communication aids (e.g. mobile, fax, e-mail etc) at the following places: Various BHEL MUs i.e. Bhopal, EDN Bangalore & Jhansi, Warehouse, Storage location in Bhutan & Site, to ensure proper coordination of logistics for the entire duration of the Contract.
- 2.1.37. No vehicle shall be loaded beyond permissible limit approved by Governmental Authorities which may cause delay in transportation. In the event of such occurrence, Bidder shall be responsible for any penalties levied and shall pay from their own account.
- 2.1.38. Bidder should be well informed about the procedural and documents requirement for such works.
- 2.1.39. Bidder to furnish their Emergency preparedness / contingency arrangement for rescue/recovery from any disruption of journey during transportation by road.
- 2.1.40. Wherever 'Trailer' is mentioned in this section of scope of work, it shall mean suitable Mechanical / Hydraulic Axles along with Prime mover of adequate capacity.

2.1.41. Wherever 'T&P' or 'Tools & Plants' is mentioned, it shall include all machinery/crane/trailer/truck/any other equipment required for execution of the job.

2.1.42. Wherever 'MU' is mentioned, it shall mean BHEL Manufacturing Unit.

2.2. Inputs from BHEL/Customer :

1. Inputs like technical & other details of the consignment, storage /preservation instructions, Instructions on transportation, authority letters for release of statutory clearance etc., dispatch schedules, dispatch clearances.
2. Drawings for Heavy lift packages giving lifting details & location of centre of gravity, if required.
3. Loading of Consignments at BHEL Bhopal, EDN Bangalore & Jhansi Works & unloading at site stores will be in BHEL's scope of work.

CHAPTER 3

3.1 . Price Schedule

Bidder shall quote price in the format enclosed as “**VOLUME – III (Latest Revision)**” for the scope of work specified in this document.

3.2 Terminal points

It will be the seamless responsibility of bidder to act as single point agency for complete scope of work whether implicit or explicit. Bidder shall remain responsible and liable for all the services and work after the cargo is lifted from the starting point till material is delivered at site.

3.3 Payment terms:

- 3.3.1 90% of the corresponding amount against activities mentioned in sl. No. 3.3.4 along with 100% taxes & duties (if applicable) shall be released on completion of respective itemwise activities on pro-rata basis as per Billing Schedule approved by BHEL.

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- 3.3.2 5% of the Contract Price will be released after completion of work under this Contract after settlement of all pending issues.
- 3.3.3 Balance 5% of the Contract Price will be released after completion of guarantee period or at the start of guarantee period against BG of equivalent amount valid till guarantee period.
- 3.3.4 Gross Payment on 100% basis will be regulated in the following manner

(A) For transportation of consignments as per Annexure – II A, III & IV :

- (i) 100% of each freight bill shall be payable on delivery of consignments at site.

(B) For transportation of consignments as per Annexure – I & II B :

- (i) 60% of each freight bill shall be payable on transportation & unloading of consignments from BHEL Bhopal to storage area.
- (ii) 40% of each freight bill shall be paid on loading of consignments & transportation from storage area to site.

(C) Storage with material handling/ lighting & Security arrangement:

- (i) Construction / arrangement of Storage with material handling, Lighting, Security etc. facilities as detailed elsewhere in the tender – **100% of the price as per Sl. No. 1 of SCH-3 of VOLUME – III (Latest Revision) .**

(ii) Operation & maintenance of Storage with material handling, Lighting, Security etc. facilities as detailed in the tender and preservation of consignments as per BHEL guidelines – **100% of the price as per SI. No. 2 of SCH-3 of VOLUME – III (Latest Revision)** progressively on monthly basis & final after exit of last stored item from store.

Note:

1. Payment will be made in Indian Rupees which is the currency of the Contract.
2. Payment will be subject to any recovery to be made from the Contractor.
3. Any income tax liability of the Contractor at source shall be deducted in accordance with Indian Income Tax law as applicable from time to time and necessary certificate in respect of such deduction in accordance with Law shall be furnished to the Contractor at his written request to BHEL.
4. All Progressive payment will be processed on certification of bills by BHEL-Punasangchhu site for completion of respective jobs.
5. Payment for a particular consignment, reached at Site, will not be released until and unless the damage / shortage certificate, if any occurs in that consignment, is not received by BHEL.

3.4. Insurance

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BHEL has taken Comprehensive marine cum transit, storage cum Erection insurance policy for the total Project cost. However, Bidder shall take at his own cost Third party insurance and suitable insurance policy for his own men and material. Please note that these insurance policies shall be taken in consultation with the BHEL, and a copy of the insurance policy shall have to be furnished to BHEL within 30 days of the date of Notification of Award. For all the insurance policies (whether taken by the BHEL or Bidder), the Bidder shall be responsible for settlement of claims with the underwriters without any liability on the BHEL.

3.5. Security Deposit :

Please refer GCC of the tender document.

3.6 Effective Date

Effective date of the Contract shall be date of LOI.

3.7 Time for Completion

3.7.1 The duration of contract shall be up to 31-Dec-2015 from start of work. If required, the contract may be extended for a mutually agreed period on existing terms and conditions.

3.7.2 The following time schedule (Maximum) for transportation of consignments including all clearance like customs,sales tax etc. at Indo-Bhutan border shall be adhered to :

- (a) Transit period from BHEL-Bhopal to Punatshangchhu site – 60 days.
- (b) Transit period from BHEL-EDN Bangalore to Punatshangchhu site – 70 days.
- (c) Transit period from BHEL-Jhansi to Punatshangchhu site – 50 days.
- (d) Transit period from BHEL-Bhopal to intermediate storage at Bhutan – 35 days
- (e) Transit period from intermediate storage area at Bhutan to Punatshangchhu site – 25 days

3.7.3 For the purpose of computing the delivery time the date of LR (for road transport) or actual date of exit from plant according to exit gate pass (Whichever is later) shall be taken as dispatch date. The date of unloading at destination

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shall be taken as the delivery date. Transportation time period will be the period in between the delivery and dispatch date. In case there is a delay in unloading by consignee , the actual date of receiving the consignment at destination as per the entry gate pass shall be taken as a delivery date provided the detention at destination is certified by the consignee/BHEL officer. In case of intermediate storage, duration of storage will not be counted on transit time. Duration of storage will be considered on the basis of store register for entry & exit record of consignments.

3.8 Termination of Contract

However, BHEL reserve the right to terminate the Contract at any time & without assigning any reason thereof giving one month notice in writing of their intention to do so and the contractor shall not be entitled for any compensation by reason of termination.

3.9 Settlement of dispute

Except as otherwise specially provided in the Contract, all disputes concerning questions of fact arising under the Contract shall be decided by the Project Manager of BHEL subject to a written appeal by the Contractor to the Project Manager whose decision shall be final to the parties hereto.
Any dispute or difference including those considered as such by only one of the parties arising out of or in connection with the Contract shall be to the extent possible settled amicably between the parties.

If amicable settlement cannot be reached, then all disputed issues shall be settled by arbitration as provided in clause 3.10 below.

3.10 Arbitration

If any dispute or difference of any kind whatsoever shall arise between the Purchaser and the Contractor, arising out of the Contract for the performance of the Works, whether during the progress of the Works or after its completion or whether before or after the termination, abandonment or breach of the contract, same shall be referred to the sole Arbitration of Power Sector Eastern Region, Bharat Heavy Electricals Limited, Kolkata or to a person appointed by them for that purpose. The arbitration shall be conducted in accordance with the provisions of the Indian Arbitration and Conciliation Act-1996. Venue of such arbitration shall be Kolkata.

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3.11 Governing Laws and Jurisdiction

This Contract shall be governed by and construed in accordance with the Laws of India.

The courts at Kolkata shall have exclusive jurisdiction for settlement of any dispute arising out of execution of this contract.

3.12 Liquidated Damage :

- (a) Subject to force majeure, if contractor fails to adhere time-schedule given as per clause no. 3.7.2, BHEL shall have the right to recover as liquidated damage (LD) for transportation of each consignment a sum equivalent to 2% of the freight for direct delivery or proportionate freight value payable at each stage of payment (BHEL-MU to storage/ Storage to site) per week of delay or part thereof.
- (b) Apart from above, in case due to non-readiness of any activity in time essentially required for successful execution of the contract, the delay occurs in total completion of the contract as per clause no. 3.7.1, BHEL shall have the right to recover liquidated damages (LD) @ 0.25% of contract price for delay of each week or part thereof.
- (c) The total liability (a) + (b) for such delay shall not in any case exceed 10 %(ten percent) of the contract price.

3.13 TAXES AND DUTIES :

1	TDS under Income Tax if applicable (Not applicable if vendor can provide PAN) , shall be deducted at prevailing rates on gross invoice value from the RA bills
2	All taxes (except Service Tax including Educational Cess and other cess, if any) , charges royalties, duties, Octroi, any state or central levy and other taxes for materials obtained for the work and for the execution of the contract shall be borne by the contractor and shall not be payable extra. Any Increase of the same at any

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	stage during execution of the contract shall have to be borne by the contractor. Quoted rates/ price of the bidder shall be inclusive of all such requirements.
3	<p>SERVICE TAX:</p> <p style="text-align: center;">A) GOODS TRANSPORT SERVICES : VOLUME – III (Latest Revision) PRICE SCHEDULE :</p> <p>As per rule 4B of Service tax Rules, A GTA is required to issue a Consignment Note for Goods Transport service as per definition of GTA vide section 65B (26) introduced w.e.f. 01-07-2012 and also required to issue us a Certificate that as per definition of GTA section 65B (26) introduced w.e.f. 01-07-2012 that</p> <p>CENVAT credit on inputs and capital goods, used for providing the taxable service, has not been taken under the provisions of the CENVAT Credit Rules, 2004.</p> <p>Hence , Service Tax will be paid by BHEL on 25 % of Gross Taxable Value .</p> <p>Bidder may please note that unless BHEL gets the “ Consignment Note “ along with a Certificate as stated above with each Bill , BHEL will not release the BILL .</p> <p style="text-align: center;">B) Construction and Maintenance of Storage : VOLUME – III (Latest Revision) PRICE SCHEDULE</p> <p>Service Tax along with Educational Cess to Service Tax as legally leviable & payable by the Contractor, vide Sec-65B (44), shall be paid by BHEL on contractor’s gross bill.</p> <p>Vide Section 68 (1) of Finance Act , 1994 read with Rule 6 (1) of Service Tax Rules , 1994 , payment of Service Tax at the rate specified in Section 66B in Section 68 w e f 01.07.2012 vide Order No. 1/2012 dated 15.06.2012 is reimbursable by BHEL . The contractor shall furnish proof of Service Tax registration with Central Excise Division covering the services under this contract. Registration should also bear endorsement for the premises from where the billing shall be done by the contractor on BHEL for this project.</p> <p>B.H.E.L-P.S.E.R will not be held to be responsible for non-compliance of various Service Tax</p>

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	<p>Rules, being framed from time to time</p> <ul style="list-style-type: none"> ➤ Point of Taxation Rule,2012 has come into operation from 01-04-2012. As per the rule Invoice must be generated within 30 days from the date of completion of service. In such case, the date of invoice will be the relevant date. However, if the invoice is not generated within 30 days as stated above, the date of completion of service shall be the relevant date. ➤ Vendors must take adequate care and cautions w.r.t “Point of Taxation Rule,2012” as otherwise both the Vendors (for non-compliance) and BHEL (unable to take Credit on Input Services, resulting in extra fund flow in that particular month) will suffer <p>With introduction of Cenvat Credit Rules , 2004 which came into force wef 10-09-04, Excise Duty paid on input goods including capital goods used for providing the output service and Service Tax paid on Input Service can be taken credit of against the service tax payable on output service. As such, while offering the rates, the contractor may take in to account the benefit of above provisions as the cost of input to contractor will be net of Excise Duty and service Tax and adjust their offer price accordingly to make it more competitive.</p>
4	The GTA is required to get themselves registered , if required at Bhutan for bringing materials, plants and machinery at Site, Road permit/ way bill. BHEL- PSER will not supply any road permit/ way bill for this purpose. The contractor must comply with BHUTAN State Law .
5	New tax & duties, if imposed subsequent by statutory after submission of tender & authority during contract period (including extension, if the same is not attributable to the contractor), shall be reimbursed by BHEL, on production of relevant supporting document to the satisfaction of BHEL, PSER. However, vendor shall obtain prior approval from BHEL, PSER before depositing new taxes & duties.

3.14 CERTIFICATE TOWARDS COMPLETION

The work under the scope of the contractor shall be deemed to have been completed in all respects only when so certified by BHEL. The decision of BHEL in this regard shall be final and binding on the contractor.

3.15 PRICE VARIATION CLAUSE(PVC)/ OVER RUN COMPENSATION (ORC)/ RATE REVISION

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Price Variation Clause (PVC)/ Over Run Compensation (ORC)/ Rate Revision are not applicable for this package.

3.16 Miscellaneous: In case similar clauses are found in both GCC & Tech. spec/SCC, the respective clause of Tech. spec. /SCC will prevail.

CHAPTER 4

Responsibility of the Bidder

4.1 Manpower

1. Bidder shall arrange for workers of all categories i.e. highly skilled specialists, semi skilled and unskilled/helper worker and supervisors etc.
2. Bidder shall submit the organization chart showing adequate staffing in all the areas.
3. The bidder shall arrange food, accommodation, transportation etc of his own and his sub-contractor’s staff and workers.

4.2 Tools & tackles and consumables

1. Bidder shall submit the deployment plan of skilled / semi-skilled manpower (along-with names and profiles and contact nos.), tool & plants, material handling equipment, consumable and hardware etc along with bid. It is required to assess the capability of bidder. However, it is the responsibility of the bidder to provide any additional number of the manpower and tool and tackles etc. required at work places over and above those specified in deployment plan in order to complete the work in timely and safe manner.

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2. Arranging suitable wooden, steel and concrete sleepers, pedestals, stools, rollers slings, ropes, hooks etc. required for receiving, transporting, unloading and storage, if any of the said cargo.
3. All T&P including special tools & tackles, low, semi low bed and specialized trailers with hydraulically lifting bed and trucks, barges etc required to carry out the work will be arranged by the bidder at his own cost.
4. Bidder on his cost shall arrange all consumables and work shall not be allowed to suffer due to lack of any consumable. BHEL or their authorized representative reserves the right to procure the required consumables / get the work done by some other agency at the risk and cost of bidder in order to complete the work in timely and safe manner.
5. Arrangement of welding / cutting machines, if required, to complete the work shall be made by the bidder at their own cost.
6. Contractor shall not be paid any charges for mobilizing /demobilizing any particular T & P.
7. Bidder shall provide the list of equipment owned or hired by them, key manpower and the mobilization plan for equipment / manpower.
8. All T&P, lifting tackles & pulling devices to be deployed by the contractor must bear valid/ latest test certificates for their suitability, and documents shall be preserved at site.

4.3 Liability

1. Bidder shall continue to be fully liable for loss and or damage to the cargo till the same is handed over the BHEL or their authorized representative.
2. Liabilities of the bidder according to obligatory laws remains unaffected and bidder will remain responsible for settlement of claims of third parties which have suffered damage either due to the bidder, his employees, associates or sub-contractors.
3. Labour utilized by the bidder for handling any work under the contract either in the premises, or elsewhere shall be treated as the employees of the bidder and BHEL shall have no liability whatsoever in this regard. The bidder shall

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comply with all statutory requirements, government regulations etc. in this regard. The bidder shall fully indemnify and hold BHEL harmless against any claims arising as a result of the failure of the bidder to comply with this clause and / or any injuries/damages suffered by the workmen.

4.4 Safety and Security

For safety of third parties, vehicle insurance, the bidder shall satisfy BHEL or their authorized representative that workman compensation insurance coverage / third party insurance policy for adequate value is taken before starting of the work and also satisfy BHEL or their authorized representative that the policy is kept in full force till the contract is completed.

Bidder shall provide escort (with communication aids) to the goods on trailer or truck during transportation till the BHEL receives the cargo.

Bidder shall be responsible to ensure the fitness & certification of T&Ps, barges, trailers etc. T&Ps with adequate capacity, size and with proper certification only shall be allowed to be used. Bidder shall deploy only trained & licensed driver(s), for the purpose intended.

4.5 Lien over Goods

Bidder, its associates, its authorized agencies, its sub-contractors or any of its employees and workers shall have no lien whether general or special over the goods entrusted by BHEL in respect of any amount due to them in connection with the goods or any services rendered in relation to the carriage or custody of the goods.

4.6 Inputs :

All the inputs like construction / maintenance power, water etc. and all the other infra structural & operational requirements will be in scope of the contractor for successful execution of job unless specifically mentioned otherwise in the tender.

4.7 Project Organisation :

The contractor shall maintain a project organization of adequate strength in respect of manpower, construction/Transportation machinery and other implements at all time for smooth execution of the contract headed by a competent manager for project operations with sufficient level of authority to take site decisions. The vendor will submit organization chart (showing the name of PROJECT-IN-CHARGE with individual bio-data indicating various levels of

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experts/experienced persons to be posted for execution of job. The organization shall be reinforced from time to time, as required to make up slippage (if any) from the schedule without any commercial implication to BHEL. The organization chart is to be submitted within 10 days from the date of LOI.

4.8 PROJECT MANAGEMENT

To meet the need of construction management at site, contractor shall provide the following services within quoted/ accepted rates

PLANNING & MONITORING

The bidder shall prepare detail construction / Logistics schedule (L-3) as per completion dates given in this document. This schedule must include all milestone and key activities for each subsystems/ components in the areas of engineering (wherever applicable), procurement, manufacture (wherever applicable), excavation/ construction/ erection / Logistics. This network must conform to the overall project schedule. The bidder should also ensure monitoring of these activities at least weekly basis to start with and on daily basis whenever required by BHEL. The network must conform to following overall project schedule. However, further micro break-up of project schedule based on major schedule shall be drawn at site prior to start of work. Bidder should also ensure monitoring of these activities at least weekly basis to start with and on daily basis whenever required by BHEL/ customer.

The bidder shall also prepare progress report indicating progress on key activities, management summary for critical activities, list of actions requiring attention of BHEL. This schedule is to be preferably made in PRIMAVERA/ MS PROJECTS, so that the same is compatible with BHEL’s project management software.

PROGRESS REPORTING:

The progress report shall indicate the progress achieved against planned with reasons indicating delays, if any, and shall give the remedial actions which the contractor intends to take to make good the slippage or lost time, so that further works again proceed as per the original program and the slippages do not accumulate and effect the overall program.
The daily reports shall clearly indicate the work force deployed, category-wise, specifying also the activities in which they are engaged.
Weekly progress review meetings will be held at any suitable location during which actual progress during the week vis-à-vis scheduled program shall be discussed or actions to be taken for achieving targets. For discussions, the

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contractor shall present program of subsequent week. The contractor shall constantly update/revise his work program to meet the overall requirement.
Periodic progress reviews on the entire activities of execution in respect of scope of bidder will be held once in a month at any location. These meetings will be attended by reasonably higher officials of the contractor and will be used as a forum for discussing all areas where progress needs to be speeded up. The contractor shall be further responsible for ensuring that suitable steps are taken to meet various targets decided upon such meetings.
During execution contractor shall take colour digital photograph / slides every month for all important activities of the works during progress and after reaching of consignment at major locations.
Successful bidder has to provide for electronic/ computerized storing and re-production/ printing/ plotting of various data, photo, protocols, measurements etc. These may be stored in CD/Removable hard disk (as per requirement) and handed over to BHEL on monthly basis.

4.9 **QUALITY CONTROL & QUALITY ASSURANCE**

Contractor's engineers & supervisors shall be adequately qualified and also inclined to do a quality job. The quality assurance engineer shall co-ordinate all aspects of quality control, inspection, implementation of quality assurance procedures laid down in Quality Plan and technical specification by BHEL. He shall fill up quality assurance log sheets/ formats and submit to BHEL for joint inspection and acceptance. The contractor shall fill up, maintain & preserve the quality records in computerized media. BHEL's authorized representative shall be given free access at all time to such quality related records etc for inspection, review etc.

4.10 **QUALITY ASSURANCE PROGRAMME:**

-The contractor shall arrange for suitable quality assurance programme to control all activities pertaining to the scope of work, as necessary. Such programs shall be outlined by the contractor and shall be finally accepted by BHEL .A quality assurance programme of the contractor shall generally cover the following :-
-Organization structure and qualification data for key personnel of the contractor for the management and implementation of the proposed quality assurance programme.
-The procedure for inspection/Quality checks of works,, material , tools & plants etc.
-System for maintenance of documents/records.

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General requirements – quality assurance
All materials, components, equipments & works covered under the specification shall be arranged at all stages as per comprehensive quality assurance programme. An indicative programme for inspection /test, to be carried out by the contractor, for some of the major items is to be furnished by the contractor, as per relevant technical specification.
Field quality plan of works to be submitted by the contractor for approval of BHEL will detail out the quality practices and procedures etc to be followed by the contractor’s project quality control function, during various stages of activities under the scope of contract.
All the purchase specifications for the major bought out items list of which shall be drawn up by the contractor and finalized with BHEL shall be furnished to BHEL for comments and approval before placement of orders.
BHEL reserves the right to carry out quality audit and quality surveillance of the systems and procedures of contractor’s quality management. Contractor shall provide all necessary assistance to enable BHEL to carry out such audit.
Quality audit/approval of the results of test and inspection will not prejudice the right of BHEL to reject any T & P/ service not giving the desired performance and shall not in no way limit the liabilities and responsibilities of the contractor in earning satisfactory performances of such T & P / service as per specification.
Repair/rectification/renovation procedure to be adopted for any job shall be subject to the approval of BHEL.
All the latest relevant IS codes as per technical specification should be available with the contractor with in 45 days from the date of placement of LOI.

4.11 REQUIREMENTS FOR TRANSPORTATION:

4.11.1	TRAFFIC REGULATIONS & REQUIREMENTS.
4.11.1.1	The transporters will operate their vehicles entirely at their own risk and BHEL shall not be held responsible for any damage to the vehicle while on the company’s/customer’s work or when parked in or around the company’s/ customer’s or any other premises
4.11.1.2	The Transporters will make their own arrangements for proper parking of their vehicles overnight / during detention in company’s/customer’s premises
4.11.1.3	The transporters will ensure that all vehicles used for the transportation of consignments are covered by a comprehensive insurance policy. Under no circumstance shall the company be liable to compensate them for any loss or damage that may be caused to the vehicles while engaged in the discharge of the transporter’s obligations under this contract.
4.11.1.4	It shall be the responsibility of the transporter to provide at his cost trained and licensed personnel for running the vehicles

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4.11.1.5	The transporter shall ensure placing vehicles of suitable category, capacity (i.e. size and load) and quality. Overloading of the vehicles will not be permitted except in exceptional circumstances.
4.11.1.6	Proper loading and lashing of the consignments in most secured manner shall be done keeping in view extant government regulations and constraints en-route for safe transportation of consignments and its delivery to destination.
4.11.1.7	Transporters shall make aware concerned drivers/staff about the danger related to transportation of hazardous/ODC lifting, handling and tilting of such consignments.
4.11.1.8	Transporters shall ensure that Motor Vehicle Act 1989 (as amended up to date) is strictly followed as applicable. Vehicles must carry up to date fitness, road permit, insurance and related documents/certificates.
4.11.1.9	All drivers/concerned staff related to the transportation activities under this contract should be well aware about material safety, data sheet etc. and well conversant with the environmental impact arising from the specified activities pertaining to use of fuels, lube oils, its spillage and disposal of various harmful items used in automotive vehicles.
4.11.1.10	Transporters shall follow all necessary instructions relating to ISO-14001 and ISO-18001 obligations for environmental safety and occupational Health Safety
4.11.2	ROUTE PERMIT/NATIONAL PERMIT/CLEARANCE :
4.11.2.1	The transporter shall arrange required permits from RTO or other concerned authorities in India as well as Bhutan and ensure compliance of any other legal and statutory formalities connected with the transportation of goods at his cost. BHEL doesn't take any responsibility in this regard.
4.11.2.2	The transporter shall get permission from Govt. of India, Ministry of Road Transport & Highways or from State Govt(s) or from local bodies or from Govt. of Bhutan necessitating such requirement relating to Motor Vehicles Act. The transporter will produce such approved documents requiring scrutiny accordingly, before the consignment is loaded.
4.11.3	PROTECTION/SAFETY OF CONSIGNMENT DURING TRANSIT
	To ensure safe transit, the consignment loading shall be done in BHEL ware house. The transporter shall ensure the following:
4.11.3.1	Placement of vehicles of good and roadworthy conditions having all welded structures and joints of vehicle chassis in sound condition
4.11.3.2	That good quality lashing ropes in sufficient numbers, length and diameters and other items required to accompany the vehicle so as to securely lash the consignment as per lashing scheme to be provided /explained by BHEL unit to ensure its safer transit in the same condition and same vehicle. Whenever explicitly mentioned by BHEL; the same should be got certified by BHEL authority.

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4.11.3.3	To protect the consignments from rains in warranting situations, transporters shall ensure Tarpaulin covering to the consignments.
4.11.3.4	Compliance of all the safety precautions and other instructions required in road transportation e.g. red flags/lamps, pilot, escort etc. may be required shall be the as responsibility of the transporter.
4.11.3.5	Lashing to be proper and safe. The transporter to check the same and to be satisfied before departing from work premises / storage area wherever required.
4.11.3.6	Complaints of unsatisfactory packing or lashing will not be entertained after the vehicle has departed from the loading point.
4.11.4	SAFETY OF CONSIGNMENT
4.11.4.1	The transporter shall be solely responsible for the safe custody of the consignments from the time the documents are handed over to him until the consignments are delivered at the destination, duly obtaining acknowledgement of delivery.
4.11.4.2	Any failure in this regard shall be viewed seriously and BHEL shall be free to take deterrent/penal action on the transporter concerned e.g. Suspension of business forthwith and future business dealings by BHEL and recovery of all losses suffered by BHEL from the transporter.
4.11.4.3	The transporter will indemnify BHEL against any loss, damage, breakage, shortage and pilferage of any materials while in his custody.
4.11.4.4	Even, in cases where the transporter does not have his branch office or delivery points, all consignments shall be accepted for transportation and deliver at such points. Similarly, the transporter shall arrange for the collection of materials from such points and delivery at any such points.
4.11.4.5	Transporter shall auction no material belonging to BHEL where customer/ suppliers have defaulted in taking delivery for various reasons. The transporter will give notice under registered post to BHEL and ask for instruction in the matter. The local manager of the transporter concerned should follow up these cases with the consignee at one end and consignor at the other end.
4.11.4.6	Where all measures have exhausted and still the consignment is held by the transporter for a period of one year or more, material shall be rebooked to the Consignor, on freight "To Pay" but no demurrage payable basis without waiting for instructions. In such cases, liability for to &fro freight will rest with BHEL. Since the consignments are imported, the vendor will seek guidance from BHEL about the address of consignor to whom the materials are to be booked.
4.11.5	STATUTORY OBLIGATIONS OF TRANSPORTER:
4.11.5.1	The transporter will observe and comply with the requirements of the Minimum Wages Act and all other Industrial & Labour legislation in India as well as Bhutan for the time being in force or that may hereafter be

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	brought into force, governing the relationship between the employer and the employee.
4.11.5.2	The transporter shall indemnify BHEL against all claims, payments and losses that the company may have to make or suffer on account thereof. The transporter shall whenever required to do so by the company or Govt. officials authorized under law, produce for inspection all forms, register and other papers required to be maintained under the various statutes.
4.11.5.3	The transporter shall accept liability for compensation in accordance with the provision of the Indian Worker's Compensation Act 1923 read with Employees State Insurance Act 1948, amendments thereafter and or other law for the time being in force for personal injury caused to any workmen by accident arising out of and in the course of this contract.
4.11.5.4	Should the company be held liable for any loss, damage or compensation to third parties arising from or in relation to transport operations done by the transporters; the transporters shall reimburse such loss, damage or compensation to the company together with the costs incurred by the company on any legal proceedings pertaining thereto.
4.11.6	TRANSSHIPMENT:
4.11.6.1	In all cases of trans-shipments; the entire responsibility for safety of goods shall be at the risk and cost of the transporter.
4.11.6.2	For all trans-shipments, detailed information to be furnished by the transporter to BHEL. Damage to the consignment under transportation, if any, shall be made good by the transporter.
4.11.6.3	Any trans-shipment anywhere shall be done under strict supervision of the transporter/his representatives to avoid the risk of any damage to the packing case or the consignment being transshipped.
4.11.6.4	Transshipment damages of the packing cases in all cases shall be made good by the transporter concerned. Transporter shall ensure that the equipment damaged due to transshipment for any reasons are collected from the site of damage and send back to BHEL free of charge.
4.11.6.5	Transporter shall make good the costs incurred by BHEL towards repair, replacement, return freight, personnel expenses, back charging of BHEL by customer and other incidentals for damaged goods, if not settled by the underwriter for any reason whatsoever.
4.11.6.6	Vehicle carrying consignment on full truckload [FTL] basis shall not carry any other FTL consignment in the same vehicle en-route. Should such a case be found, freight payment shall be restricted to single consignment only.
4.11.7	PLACEMENT OF VEHICLES & LIFTING OF CONSIGNMENTS

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4.11.7.1	The vehicle will be normally required to report to respective BHEL MUs-Bhopal, EDN Bangalore & Jhansi plant as required to receive the material. The transporter should provide the vehicles normally within two (2) days for truck, three (3) days for mechanical trailers and seven (7) days for hydraulic trailers from the date of allotment/placement of demand except in exigencies where shorter duration could be inevitable. However, wherever possible, sufficient advance intimation in writing shall be given for placement of vehicles for loading consignment. The exit timings shall be generally upto 6.00 PM on working days.
4.11.7.2	The transporters shall also ensure that Motor Vehicle Act/Rules stipulations are strictly followed. It will be the transporter's responsibility to deploy proper vehicles to transport consignments covered under the scope of work of this contract w.r.t. the axle and tyre configuration ensuring the load bearing capacity as per Motor Vehicle Act/Rules stipulated by Ministry of Road Transport & Highways.
4.11.7.3	The vehicle(s) required to be deployed under this contracts will be in roadworthy conditions, to give uninterrupted service to the BHEL. In case transporters fail to place/deploy vehicle(s) after confirming, BHEL shall be at liberty to make suitable alternative arrangement. All additional expenditure as also damage/losses incurred by the BHEL as a result of break-down of the transporter's vehicle(s) or transport arrangement, will be payable by the transporter to BHEL and such damage/losses shall determined by BHEL at its sole discretion.
4.11.7.4	In case of failure to ensure compliance of any or all of the preceding clauses, BHEL reserves the right to make alternative arrangements for hiring vehicles at transporter's risk & cost. In such cases a token penalty per day may be levied by BHEL at its discretion on the transporter after 24 hours, this shall be deducted from their running bills for each day of delay for maximum one week.
4.11.7.5	Transporter failing to place vehicle(s) required within the period intimated at Manufacturing units of BHEL or customer sites/supplier/sub-contractor's works and storage area as required will be considered as a defaulter and business loading on them could be suspended temporarily. Repeated failures in placing the vehicles may lead to stoppage of business loading and even cancellation of the contract
4.11.7.6	If the vehicle is not placed within the two days beyond the indicated placement date of vehicle as per clause 4.11.7.1, BHEL is at liberty to recover Rs.500/ per day for truck, Rs 1000/- per day for mechanical trailer and Rs 2500/- per day for hydraulic trailer from transporter's bills.
4.11.8	CONSIGNMENT WEIGHT/MEASUREMENTS
4.11.8.1	The weight shall be taken as per actual weighbridge record of BHEL for consignments. For all consignments, the reading shown in digital/analogue crane scale wherever available shall be applicable. In cases where either crane scales are not available or it is not feasible to weigh the consignments on the weighbridge, the weight as indicated in the drawing or packing list shall be reckoned.

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4.11.8.2	In case there is, a possibility/need to mix the trailer and truck consignments for a destination, then to optimize loading and utilize the trailer capacity the same shall be resorted to by BHEL.
4.11.9	CONSIGNMENT NOTE CERTIFICATION:
4.11.9.1	The following information shall invariably be legibly and clearly indicated on the BHEL specific Consignment Note (i.e. LR) by the transporter at the time of loading of the consignment and prior to certification of despatch by the consignor / customer: (i)Registration No(s). of the vehicle(s). ii) Weight, dimensions and No. of the packing cases iii) Name & address of the consignor with specific destination. iv) Description of the consignments with BHEL Purchase Order (PO) reference. v) Distance to destination in KM and rate of freight,if any. vi) Despatch Control Record entry No. and reference to all other relevant information of Despatch Advice Note, Excise Invoice, and Way Bill/Permit etc. vii) Freight details and consignment value.
4.11.10	TRANSIT INSURANCE
4.11.10.1	Transit insurance of the consignment under transportation by the transporter will be responsibility of BHEL/Consignee as the case may be. However, transporter will be responsible for any external damages as per Sec. 8 of Carriers Act, 1865.
4.11.10.2	The contract as entered into between BHEL and the transporter(s) shall in no way nullify, reduce, mitigate or absolve the parties of any responsibility, obligation or liability that may devolve upon them under the Carriers Act, 1865 as amended upto date.
4.11.10.3	Position as above shall not absolve the transporter of his responsibility for safe and proper transportation of the goods to the proper destination or his liability to compensate for the damage/ shortage / loss in respect of the consignments transported by him.
4.11.10.4	The transporter's consignment note (LR) shall be acceptable to insurance company. In addition, the transporter shall get "LEGAL LIABILITY" from Insurance Company for Insurance Cover.
4.11.11	VEHICLE MOVEMENT REPORTING
4.11.11.1	The transporters shall be bound to report movement progresses of all outgoing consignments through electronic communication systems such as Fax, Mobile telephone/STD phones/Roaming cell phones, e-mail, web based monitoring system or any other mode desired by BHEL at regular intervals.
4.11.11.2	For consignments carried by Hydraulic trailers, the transporter shall ensure that the vehicle driver carries with him a mobile phone to enable BHEL/Customer to contact him for monitoring the progress. The mobile

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	phone No. shall be intimated to BHEL before the consignment is moved. Besides, daily status of movement shall be conveyed by e-mail to BHEL.
4.11.12	DETENTION, DEMURRAGE, WHARFAGE & STORAGE:
4.11.12.1	Except as provided in "Special Terms & Conditions"; no detention, demurrage, wharfage, storage or any such charges shall be payable to the transporter.
4.11.13	ROUTE & DISTANCE:
4.11.13.1	The transporters are advised in their own interest to conduct and update/confirm route on their own before carrying the consignment to avoid any delays en-route. In specific cases, BHEL reserves the right to seek a route survey report from the transporter, for which no separate charges shall be payable by BHEL.
4.11.13.2	The distance for the purpose of freight admissibility shall be the shortest route exhibited in the Motoring Guide of India (latest edition) or the shortest established route for the destination. Wherever a particular station is not appearing in MGI, the distance calculated upto the nearest station available in MGI will be suitably increased/decreased based on information from other sources like Railway time table, Project authorities etc.
4.11.13.3	Notwithstanding 4.11.13.2 above, it shall be the responsibility of the transporter to use alternate shorter route, which may be available but not appearing in MGI and claim freight accordingly. If it is found at a later date that the transporter has adopted a route shorter than the claimed route, freight paid for the excess distance shall be recovered from the transporter's running bills.
4.11.13.4	Where longer route becomes necessary due to validly unavoidable circumstances, the transporter shall documentarily evidence e.g. news clippings/ photographs of road obstructions/ diesel filling bills/ endorsement from PWD, RTO check posts etc. along with the freight bill.
4.11.13.5	Wherever the consignee or consignor has re-directed the consignment to other destination, the transporter shall obtain such request from concerned authorities in writing and submit it along with freight bill for claiming the distance as per redirected route.
4.11.14	TRANSIT PERIOD:
4.11.14.1	The timely delivery of consignments is the essence of the contract. Consignment will have to be transported safely to the destination within the normal permissible running/transit period as given under "Special terms & conditions"
4.11.14.2	Transporters shall make available the delivery information within 2-3 days of delivery in all cases referred to them by BHEL.
4.11.14.3	For all overdue consignments (i.e. delayed beyond the stipulated delivery time) transporters shall, through their local office, submit delivery status of the consignments regularly on weekly basis.

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4.11.15	DESPATCH DOCUMENTS
4.11.15.1	<p>While accepting the consignments for transportation, the transporter shall ensure to collect all the necessary documents from the consignor viz.</p> <ul style="list-style-type: none"> i. Dispatch Advice Note/Challan, ii. Excise Invoice (Pink/ Duplicate) indicating PO reference, iii. Driver /Lorry/Destination Copy of LR along with “freight bill copy”, iv. Consignee Copy of LR for door delivery, v. Road Permit/Waybills etc. wherever applicable, vi. SMIV/PMIV/Excise Gate Pass, wherever applicable. <p>Since the consignments are imported, Document – RDA (Road Dispatch Advice) – will be provided in place of above above mentioned documents in addition to documents received along with cargo.</p>
4.11.15.2	The transporter shall be responsible for delivering the connected documents particularly original excise gate pass/invoice, counter-foil of Road Permit etc. to the consignee and obtaining acknowledgement of the same.
4.11.15.3	In case the transporter fails to deliver original Excise Gate Pass (duplicate for transporter to claim Mod vat) and any other documents to BHEL and counter-foil of the waybill to Consignee, responsibility for loss shall be entirely on transporter.
4.11.15.4	Wherever BHEL has arrangement with customer for furnishing Road Permits at Check-posts, transporter shall collect the same from customer’s office en-route.
4.11.15.5	All documents related with transportation, required to be shown at various check posts are collected by the transporter so that the consignments are not detained/delayed en-route on this account. Detention / delays on this account will be the transporter’s responsibility.
4.11.16	<p>ESCORT:</p> <p>Wherever BHEL intends to depute an escort for important consignments; he shall be allowed to travel in the same vehicle to the destination free of charge. The transporter will have to organize their own escort on BHEL’s request for which no charge will be paid.</p>
4.11.17	DELIVERY & ACKNOWLEDGEMENT:
4.11.17.1	The transporter shall be responsible to obtain acknowledgement of delivery of goods from the consignee strictly in the prescribed manner with signature, name & seal of consignee’s representative receiving the material duly specifying date & time, type of vehicle and Registration No(s) and condition of the consignment on delivery incorporated overleaf LR/MR submitted along with their freight bill claim. In case of any lapse, processing of the freight bill for release of payment will be made only after due investigation.

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4.11.17.2	All door delivery consignments with consignee copy attached will have to be delivered to site / customer in case of outgoing consignments.
4.11.17.3	The consignee copy of the LR shall be surrendered by BHEL only after physical delivery of consignment is taken from the transporter and obtaining qualifying certificates, if required, regarding open delivery / damages / breakage / shortages / leakage etc. Pending issue of these certificates, the consignee copy shall be retained by BHEL.
4.11.17.4	No other miscellaneous charges will be paid against such consignments irrespective of nature of booking including go-down delivery consignments.
4.11.17.5	In case of any damage to the consignment in transit, open delivery certificate and joint inspection memo [JIM] whenever so called for by BHEL / Consignee shall be adhered to by the transporter.
4.11.17.6	The transporter will be bound under the contract to give shortages/ damage/open delivery/ joint inspection certificate(s) wherever required for lodging our claim with the underwriters. In case they fail to comply with this, any loss, liability thus arising will rest with the transporter. In case of joint inspection memo (JIM), the transporter should intimate the BHEL representative authorised to sign the JIM, which should be properly stamped with the name of the person to avoid any dispute later. Manager of Transport Company shall duly attest the signature of the representative.
4.11.17.7	The transporter will be bound to accept letters/notice/claims from BHEL/ Insurance Co. in accordance with the provision of the Insurance Act.
4.11.17.8	Transporters shall ensure submission of damage/shortage/loss certificate immediately on receiving intimation to the effect under acknowledgement of the concerned official with submission of the "acknowledged copy" of the certificate on freight billing.
4.11.17.9	In case a vehicle meets an accident en-route, the transporter shall immediately inform BHEL, furnishing details of the mishap, copy of FIR, photographs and damage report etc. to enable BHEL arrange survey, if required. The transporter shall move such consignment only after specific clearance is given by BHEL. • No freight bill for movement of such consignment shall be entertained till BHEL/Customer's insurance claim is settled.
4.11.18	Detention :
4.11.18.1	Detention charges for vehicles detained at Site shall be as follows – a) For first Seven days from the date of reporting at site : NIL b) Beyond Seven days: Rs 500/- per day for truck, Rs.1000/- per day for mechanical trailer, Rs 2500/- per day for hydraulic trailer including prime mover (For each additional day). c) The detention charges shall be limited to 10% of the Freight amount. d) The period of detention shall be certified by the Consignee/Customer/BHEL Site-Incharge.

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Annexure – V

CERTIFICATE OF DECLARATION FOR CONFORMING TO SITE CONDITIONS

We, _____

hereby declare and confirm that we have visited the, entire transportation route from various BHEL MU's to Punatsangchhu Project Site, Bhutan and project site under subject, namely **6X200 MW Punatsangchhu-I Hydroelectric Project, Punatsangchhu, Bhutan** and acquired full knowledge and information about the condition.

The above information is true and correct and we will not raise any claim of any nature due to lack of knowledge of site conditions.

Tenderer's Name & Address

Place:

(Signature of Tenderer)

With stamp

Date:

ANNEXURE-I

CONSIGNMENTS MORE THAN 35 MT(ODC)

List of OD Consignments for transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan with interim storage.

PUNATSHANGCHHU PHASE-I HYDROELECTRIC PROJECT (6X200MW)

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)

S. No.	Item Description	No. of Units	No. of Boxes / Unit		Box Sizes in mm			Gr. weight	Qty	Total Wt.
					L	B	H	kg		kg
A. Turbine items										
1	Runner	1	1	i	5500	5500	1500	35000	1	35000
2	Turbine Shaft	2	1	i	5000	2500	2500	40000	2	80000
B. Generator items										
3	Generator Bottom Shaft	3	1	i	5000	3200	3200	40000	3	120000
4	Generator Top Shaft	6	1	i	2500	1900	1900	40000	6	240000
C. Turbine & Generator items										
5	Guide Apparatus	3	2	i	6600	3300	3500	46783	3	140349
				ii	6600	3300	3500	46783	3	140349

SHIPPING DETAILS OF SUPPLIES (FROM APR'2013 TO MAR'2014)

6	Guide Apparatus	3	1	i	6600	3300	3500	46783	3	140349
			1	ii	6600	3300	3500	46783	3	140349
7	Runner	5	1	i	5500	5500	1500	35000	5	175000
8	Turbine Shaft	4	1	i	5000	2500	2500	40000	4	160000
9	Arrgt of Penstock butterfly valve									
	Door (Half)	2	1	i	6100	4000	2200	38000	2	76000
	Door (Half)	2	1	ii	6100	4000	2200	38000	2	76000
	Body (Half)	2	1	iii	7200	3800	2300	39000	2	78000
10	Main Inlet Valve									
	D/S Body	6	1	i	5000	2270	4800	35000	6	210000
	Door	6	1	ii	3420	3000	2800	50000	6	300000
	Runner (Spare)	1	1	iii	5500	5500	1500	35000	1	35000
	Runner (Spare)	1	1	iv	5500	5500	1500	35000	1	35000
11	Bottom Shaft	3	1	i	5000	3200	3200	40000	3	120000

Total Wt. 2379396

ANNEXURE- II A

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for direct transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan

S. NO.	Item Description	No. of Units	No. of Boxes / Unit	Box Sizes in mm			Gr. weight kg	Qty	Total Wt. kg
				L	B	H			

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)

A. TURBINE ITEMS

1	Installation of DT Cone with securing items	4	3	i	1220	660	420	50	4	200
				ii	460	310	260	215	4	860
				iii	460	310	260	12	4	48
2	Tubes & Embedments for field Efficiency	6	1	iv	1500	1500	800	80	6	480
3	Runner	1	1	v	1500	1500	1000	800	1	800
4	Turbine Shaft	2	1	vi	1500	1500	1000	800	2	1600

B. GENERATOR ITEMS

5	Stator Bars	6	25	i	1400	700	800	620	6	3720
				ii	2350	1800	1000	950	6	5700
				iii	3700	1000	900	1350	6	8100
				iv	3700	1000	900	1350	6	8100
				v	3700	1000	900	1350	6	8100
				vi	3700	1000	900	1350	6	8100
				vii	3700	1000	900	1350	6	8100
				viii	3700	1000	900	1350	6	8100
				ix	3700	1000	900	1350	6	8100
				x	3700	1000	900	1320	6	7920
				xi	3700	1000	900	1320	6	7920
				xii	4400	1000	900	1350	6	8100
				xiii	4400	1000	900	1350	6	8100
				xiv	4400	1000	900	1350	6	8100
				xv	4400	1000	900	1350	6	8100
				xvi	4400	1000	900	1350	6	8100
				xvii	4400	1000	900	1350	6	8100
				xviii	4400	1000	900	1350	6	8100
				xix	3700	1000	900	1320	6	7920
				xx	3700	1000	900	1320	6	7920
				xxi	3700	1000	900	1450	6	8700
				xxii	3700	1000	900	980	6	5880
				xxiii	4400	1000	900	1350	6	8100
				xxiv	3700	1000	900	920	6	5520
				xxv	3700	1000	900	980	6	5880
6	Bus Ring Connectors.	2	6	i	8700	800	700	900	2	1800
				ii	7600	800	700	900	2	1800
				iii	6600	800	700	600	2	1200
				iv	5900	800	1000	650	2	1300
				v	4300	800	1050	500	2	1000
				vi	3800	800	1050	450	2	900
				i	1300	1000	800	2800	3	8400
				ii	1300	1000	800	2800	3	8400
				iii	1300	1000	800	2800	3	8400
				iv	1300	1000	800	2800	3	8400
				v	1300	1000	800	2800	3	8400
				vi	1300	1000	800	2800	3	8400
				vii	1300	1000	800	2800	3	8400
				viii	1300	1000	800	2800	3	8400
				ix	1300	1000	800	2800	3	8400
				x	1300	1000	800	2800	3	8400
				xi	1300	1000	800	2800	3	8400
				xii	1300	1000	800	2800	3	8400

ANNEXURE- II A

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for direct transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan

S. NO.	Item Description	No. of Units	No. of Boxes / Unit	Box Sizes in mm			Gr. weight kg	Qty	Total Wt. kg
				L	B	H			

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)

7	Stator Punchings	3	61	xiii	1300	1000	800	2800	3	8400
				xiv	1300	1000	800	2800	3	8400
				xv	1300	1000	800	2800	3	8400
				xvi	1300	1000	800	2800	3	8400
				xvii	1300	1000	800	2800	3	8400
				xviii	1300	1000	800	2800	3	8400
				xix	1300	1000	800	2800	3	8400
				xx	1300	1000	800	2800	3	8400
				xxi	1300	1000	800	2800	3	8400
				xxii	1300	1000	800	2800	3	8400
				xxiii	1300	1000	800	2800	3	8400
				xxiv	1300	1000	800	2800	3	8400
				xxv	1300	1000	800	2800	3	8400
				xxvi	1300	1000	800	2800	3	8400
				xxvii	1300	1000	800	2800	3	8400
				xxviii	1300	1000	800	2800	3	8400
				xxix	1300	1000	800	2800	3	8400
				xxx	1300	1000	800	2800	3	8400
				xxxii	1300	1000	800	2800	3	8400
				xxxiii	1300	1000	800	2800	3	8400
				xxxiv	1300	1000	800	2800	3	8400
				xxxv	1300	1000	800	2800	3	8400
				xxxvi	1300	1000	800	2800	3	8400
				xxxvii	1300	1000	800	2800	3	8400
				xxxviii	1300	1000	800	2800	3	8400
				xxxix	1300	1000	800	2800	3	8400
				xl	1300	1000	800	2800	3	8400
				xli	1300	1000	800	2800	3	8400
				xlii	1300	1000	800	2800	3	8400
				xliiii	1300	1000	800	2800	3	8400
				xliv	1300	1000	800	2800	3	8400
				xlv	1300	1000	800	2800	3	8400
				xlvi	1300	1000	800	2800	3	8400
				xlvii	1300	1000	800	2800	3	8400
				xlviii	1300	1000	800	2800	3	8400
				xliv	1300	1000	800	2800	3	8400
				l	1300	1000	800	2800	3	8400
				li	1300	1000	800	2800	3	8400
				lii	1300	1000	800	2800	3	8400
				liii	1300	980	800	2300	3	6900
				liv	1300	980	800	2300	3	6900
				lv	1300	980	800	2300	3	6900
				lvi	1300	980	800	2300	3	6900
				lvii	1800	1350	1200	2500	3	7500
				lviii	1800	1350	1200	2500	3	7500
				lix	1800	1350	1200	2500	3	7500
				lx	1800	1350	1200	2500	3	7500
				lxi	1800	1350	1200	500	3	1500
				i	1900	750	850	2750	5	13750
				ii	1900	750	850	2750	5	13750
				iii	1900	750	850	2750	5	13750

ANNEXURE- II A

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for direct transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan

S. NO.	Item Description	No. of Units	No. of Boxes / Unit	Box Sizes in mm			Gr. weight kg	Qty	Total Wt. kg
				L	B	H			

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)

9	Wound Pole Assembly	6	24	viii	2250	1050	800	4700	6	28200
				ix	2250	1050	800	4700	6	28200
				x	2250	1050	800	4700	6	28200
				xi	2250	1050	800	4700	6	28200
				xii	2250	1050	800	4700	6	28200
				xiii	2250	1050	800	4700	6	28200
				xiv	2250	1050	800	4700	6	28200
				xv	2250	1050	800	4700	6	28200
				xvi	2250	1050	800	4700	6	28200
				xvii	2250	1050	800	4700	6	28200
				xviii	2250	1050	800	4700	6	28200
				xix	2250	1050	800	4700	6	28200
				xx	2250	1050	800	4700	6	28200
				xxi	2250	1050	800	4700	6	28200
xxii	2250	1050	800	4700	6	28200				
xxiii	2250	1050	800	4700	6	28200				
xxiv	2250	1050	800	4700	6	28200				
10	Generator Bottom Shaft	3	1	i	800	700	800	1000	3	3000
11	Generator Top Shaft	6	1	i	800	700	1000	1000	6	6000

C. TURBINE & GENERATOR ITEMS

12	Installation of Stay Ring with securing items	5	1	i	800	500	420	25	5	125
13	Installation of Spiral Casing with securing items	6	5	i	1440	1120	800	2500	6	15000
				ii	500	500	200	30	6	180
				iii	2500	1000	1000	810	6	4860
				iv	460	310	260	5	6	30
				v	2250	750	600	2300	6	13800
14	Guide Apparatus	3	4	i	2000	1500	1000	370	3	1110
				ii	2000	1500	1000	602	3	1806
				iii	1500	1500	1000	12	3	36
				iv	1500	1500	1000	70	3	210
15	Upper Bracket Assembly	6	2	i	800	500	410	220	6	1320
				ii	500	500	500	870	6	5220
16	Lower Bracket Assembly	6	2	i	2200	650	600	2908	6	17448
				ii	500	500	500	870	6	5220
17	Rotor Spider	6	3	i	1200	800	800	500	6	3000
				ii	1200	800	800	500	6	3000
				iii	1500	1500	1000	1500	6	9000

D. SHIPPING DETAILS OF SUPPLIES (FROM APR'2013 TO MAR'2014)

1	Guide Apparatus	3	1	i	2000	1500	1000	370	3	1110
			1	ii	2000	1500	1000	602	3	1806
			1	iii	1500	1500	1000	12	3	36
			1	iv	1500	1500	1000	70	3	210
2	Runner	5	1	i	1500	1500	1000	800	5	4000
3	Turbine Shaft	4	1	i	1500	1500	1000	800	4	3200
4	G V Servo	6	4	i	1000	800	800	1200	24	28800
5	Shaft Sealing	6	1	i	2500	2500	500	800	6	4800
6	Guide Bearing	6	1	i	800	800	500	350	6	2100
			1	ii	800	400	400	300	6	1800
7	Monorail in Turbine Pit	6	1	i	800	500	420	125	6	750

ANNEXURE- II A

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for direct transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan

S. NO.	Item Description	No. of Units	No. of Boxes / Unit	Box Sizes in mm			Gr. weight kg	Qty	Total Wt. kg	
				L	B	H				
SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)										
			1	ii	800	500	420	125	6	750
8	Arrgt of flowmeter & discharge measuring instruments piping	6	1	i	2700	2700	750	2400	6	14400
			1	ii	2100	2100	1500	700	6	4200
9	Pipes in Turbine Pit	6	1	i	800	500	420	100	6	600
			1	ii	800	500	420	100	6	600
			1	iii	800	500	420	100	6	600
			1	iv	800	500	420	100	6	600
10	Oil Pipe Lines	6	1	i	800	500	420	100	6	600
			1	ii	800	500	420	100	6	600
			1	iii	800	500	420	100	6	600
			1	iv	800	500	420	100	6	600
11	Cooling Water System	1	24	i	3500	2000	1500	1500	24	36000
			36	ii	2000	2000	2000	4000	36	144000
			6	iii	2500	2500	2500	1600	6	9600
		6	1	iv	800	500	420	100	6	600
			1	v	800	500	420	100	6	600
			1	vi	800	500	420	100	6	600
			1	vii	800	500	420	100	6	600
12	Compressed Air System	1	2	i	2300	1100	1800	2500	2	5000
13	Drainage & Dewatering system	1	8	i	3000	3000	3000	8000	8	64000
14	Governing Items									
	Hydro Mechanical Cabinet (H.M.C.)	6	1	i	1400	1200	2500	1700	6	10200
	Microprocessor Based Digital Governor (EHGC)	6	1	ii	2520	1200	1000	1100	6	6600
	Oil Sump Tank for GOV	6	1	iii	2000	2000	2200	2800	6	16800
	Oil Pressure Accumulator for GOV	6	1	iv	2300	1600	4000	4200	6	25200
	Nitrogen Bottle Bank	6	1	v	1500	2000	2000	2200	6	13200
	Oil Sump Tank for MIV	6	1	vi	2700	2200	2400	3400	6	20400
	Oil Pressure Accumulator for MIV	6	1	vii	3100	2200	4000	9200	6	55200
	Nitrogen Bottle Bank	6	1	viii	3250	2000	3350	6200	6	37200
	MIV Hydraulic Control Panel	6	1	ix	700	1000	2350	500	6	3000
	MIV Electrical Control Panel	6	1	x	800	1000	2500	400	6	2400
	Oil Sump Tank for BFV per valve	2	1	xi	3200	3100	2600	4700	2	9400
	Oil Pressure Accumulator for BFV per valve	2	1	xii	3100	1600	4000	6200	2	12400
	Nitrogen Bottle Bank per valve	2	1	xiii	2100	1800	3000	3700	2	7400
	BFV Hydraulic Control Panel per valve	2	1	xiv	700	1000	2350	500	2	1000
BFV Electrical Control Panel per valve	2	1	xv	800	1000	2500	400	2	800	

ANNEXURE- II A

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for direct transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan

S. NO.	Item Description	No. of Units	No. of Boxes / Unit		Box Sizes in mm			Gr. weight kg	Qty	Total Wt. kg
					L	B	H			
SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)										
	LUB. Oil Purifier Centrifugal Type (4M3 / Hr.) - 2 Nos. common for Powerhouse	1	1	xvi	3000	2000	2000	2450	1	2450
	Oil Storage Tank (14 M3) - 2 Nos. Common for Powerhouse	1	1	xvii	2500	2500	3000	1600	1	1600
	Pipe, Pipe Fittings and Accessories for Oil Handling System Common for Powerhouse	1	1	xviii	5000	2000	2000	4200	1	4200
	Piping for Head Race, Tail Race, Drainage, Dewatering & Flood Level System Common for Powerhouse	1	1	xix	3000	1000	1000	500	1	500
15	Arrgt of Penstock butterfly valve									
	Rubber items	2	1	i	2000	2000	2000	550	2	1100
	DS seat ring carrier (in halves)	2	1	ii	7500	3600	300	1200	2	2400
	Al Br Housing	2	1	iii	4000	1500	1500	400	2	800
16	Arrgt of Servomotor									
	RH Servomotor	2	1	i	4500	1500	1500	4700	2	9400
	LH Servomotor	2	1	ii	4500	1500	1500	4700	2	9400
17	Inlet Pipe									
	Misc items	2	1	i	2000	2000	2000	1200	2	2400
18	Bypass valve									
	By pass valve -1	2	1	i	2000	800	800	1000	2	2000
	Misc-1	2	1	ii	500	500	500	250	2	500
	By pass valve -2	2	1	iii	2000	800	800	1000	2	2000
	Misc-2	2	1	iv	500	500	500	250	2	500
19	Tools, Tackles & Erection devices									
	D shackles	1	1	i	2000	2000	1000	550	1	550
	Hardwares	1	1	ii	1500	1500	1500	850	1	850
20	Testing devices									
	Hardwares	1	1	i	2000	2000	2000	550	1	550
	Misc.	1	1	ii	2000	2000	2000	250	1	250
21	BFV Pipelines									
	Rubber items	2	1	i	2000	2000	2000	1200	2	2400
	Instruments	2	1	ii	1000	1000	1000	120	2	240
	Hardwares	2	1	iii	1000	1000	1000	850	2	1700
22	Platform,railing stair case etc									
	Hardwares	2	1	i	2000	2000	2000	550	2	1100
	Misc	2	1	ii	2000	2000	2000	550	2	1100
23	Air valve									
	Air valve	2	1	i	1500	1000	1000	550	2	1100
	Hardwares	2	1	ii	1000	500	500	250	2	500
	Misc	2	1	iii	1000	500	500	350	2	700
	Air valve	2	1	iv	1500	1000	1000	550	2	1100
	Hardwares	2	1	v	1000	500	500	250	2	500

ANNEXURE- II A

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for direct transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan

S. NO.	Item Description	No. of Units	No. of Boxes / Unit	Box Sizes in mm			Gr. weight kg	Qty	Total Wt. kg	
				L	B	H				
SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)										
	Misc	2	1	vi	1000	500	500	350	2	700
24	Vaccum breaking valve									
	Valve-1	2	1	i	2500	2500	2500	1500	2	3000
	Valve-2	2	1	ii	2500	2500	2500	1500	2	3000
	Valve-3	2	1	iii	2500	2500	2500	1500	2	3000
	Valve-4	2	1	iv	2500	2500	2500	1500	2	3000
	Hardwares	2	1	v	1000	1000	1000	450	2	900
	Misc	2	1	vi	1000	1000	1000	300	2	600
25	BFV spares									
	Service seal, screws	1	1	i	2000	2000	2000	1700	1	1700
	Piston rings, bushes	1	1	ii	2000	2000	2000	550	1	550
	Bypass valve	1	1	iii	2000	800	800	1000	1	1000
	Drain valve, Rubber seals	1	1	iv	1000	500	500	550	1	550
	Anti vaccum valve	1	1	v	2500	2500	2500	1200	1	1200
	Air valve	1	1	vi	1500	1000	1000	550	1	550
26	Main Inlet Valve									
	MIV Servomotor	6	2	i	4500	800	800	8000	12	96000
	Bypass Valve	6	2	ii	1600	800	500	850	12	10200
	Seals, Hardwares etc	6	20	iii	1500	1500	1000	1000	120	120000
	MCPs	1	30	iv	3000	2000	2000	800	30	24000
27	Bottom Shaft	3	1	i	800	700	800	1000	3	3000
28	Generator Instruments	6	34	i	800	500	410	200	204	40800

Total Wt. 3044235

ANNEXURE-IIB

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan with interim storage

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)

TURBINE ITEMS										
S. No.	Item Description	No. of Units	No. of Boxes / Unit	Box Sizes in mm			Gr. weight	Total Qty.	Total Wt.	
				L	B	H	kg		kg	
1	Installation of D T Cone with securing items	4	9	i	3370	3370	1000	8484	4	33936
				ii	3653	3653	1345	4530	4	18120
				iii	3800	3800	1470	5180	4	20720
				iv	4430	4430	732	2580	4	10320
				v	2000	1400	900	1550	4	6200
				vi	6500	50	50	8	4	32
				vii	1800	500	500	475	4	1900
				viii	6000	400	350	550	4	2200
				ix	1220	780	560	800	4	3200
2	Pipes & Embedments in First Stage	6	10	i	5300	800	800	1632	6	9792
				ii	5300	800	800	1632	6	9792
				iii	1220	780	560	760	6	4560
				iv	1220	780	560	760	6	4560
				v	1600	850	800	2000	6	12000
				vi	1220	660	420	460	6	2760
				vii	1800	500	500	100	6	600
				viii	2500	1100	1100	200	6	1200
				ix	6300	4900	820	14000	6	84000
				x	1220	660	420	460	6	2760
3	Tubes & Embedments for field Efficiency	6	4	i	6400	500	600	2000	6	12000
				ii	1220	660	420	370	6	2220
				iii	1500	1500	800	100	6	600
				iv	6000	1500	1500	13000	6	78000
4	Installation of Spiral Inlet Pipe with securing items	5	1	i	3500	3500	2610	14241	5	71205
5	Embedded Pipes in Second Stage	6	10	i	5300	800	800	1632	6	9792
				ii	5300	800	800	1632	6	9792
				iii	1220	780	560	760	6	4560
				iv	1220	780	560	760	6	4560
				v	1600	850	800	2000	6	12000
				vi	1220	660	420	460	6	2760
				vii	1800	500	500	100	6	600
				viii	2500	1100	1100	200	6	1200
				ix	6300	4900	820	14000	6	84000
				x	1220	660	420	460	6	2760
TURBINE & GENERATOR ITEMS										
1	Installation of Stay Ring with securing items	5	4	i	8098	4049	635	29800	5	149000
				ii	8098	4049	635	28000	5	140000
				iii	1440	1120	800	950	5	4750
				iv	1600	700	850	2200	5	11000
2	Installation of Spiral Casing with securing items	6	10	i	6100	3500	3000	17503	6	105018
				ii	7400	3300	2700	16374	6	98244
				iii	6800	2900	2300	9543	6	57258
				iv	4700	1800	1650	2946	6	17676
				v	3200	2800	2300	10001	6	60006
				vi	2400	2300	1950	3540	6	21240
				vii	1900	1800	1750	1712	6	10272
				viii	3000	2950	1400	5125	6	30750
				ix	2900	2900	3000	11000	6	66000
				x	6000	500	500	1685	6	10110
				i	5600	4600	2400	3116	6	18696
				ii	1200	800	1200	800	6	4800

ANNEXURE-IIB

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan with interim storage

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)														
3	Installation of Pit Liner with securing items	6	10	iii	5600	4600	2400	3000	6	18000				
				iv	1200	800	800	800	6	4800				
				v	1200	800	800	800	6	4800				
				vi	5600	4600	2400	3116	6	18696				
				vii	5600	4600	2400	3116	6	18696				
				viii	5600	1300	2000	3116	6	18696				
				ix	2200	1200	1200	800	6	4800				
				x	250	250	3250	800	6	4800				
				4	Guide Apparatus	3	13	i	6600	4500	1000	25466	3	76398
								ii	6600	4500	1000	25466	3	76398
iii	4500	4500	500					9245	3	27735				
iv	5600	5600	500					3996	3	11988				
v	5600	5600	500					3996	3	11988				
vi	2500	1660	1300					3720	3	11160				
vii	2500	1660	1300					3720	3	11160				
viii	2500	1660	1300					3720	3	11160				
ix	2500	1660	1300					3720	3	11160				
x	2500	1660	1300					3720	3	11160				
xi	2000	1500	1000					1395	3	4185				
xii	2000	1500	1000					1178	3	3534				
xiii	2000	1500	1000					8412	3	25236				
5	Stator Frame Assembly	6	4	i	6600	3100	1600	9191	6	55146				
				ii	6600	3100	1600	9191	6	55146				
				iii	6600	3100	1600	9191	6	55146				
				iv	6600	3100	1600	9191	6	55146				
6	Upper Bracket Assembly	6	9	i	3550	3550	850	8800	6	52800				
				ii	3150	500	825	1888	6	11328				
				iii	3150	500	825	1888	6	11328				
				iv	3150	500	825	1888	6	11328				
				v	3150	500	825	1888	6	11328				
				vi	3150	500	825	1888	6	11328				
				vii	3150	500	825	1888	6	11328				
				viii	3150	500	825	1888	6	11328				
				ix	3150	500	825	1888	6	11328				
7	Lower Bracket Assembly	6	8	i	4100	2050	2500	28878	6	173268				
				ii	2200	650	600	2908	6	17448				
				iii	2200	650	600	2908	6	17448				
				iv	2200	650	600	2908	6	17448				
				v	2200	650	600	2908	6	17448				
				vi	2200	650	600	2908	6	17448				
				vii	2200	650	600	2908	6	17448				
				viii	2200	650	600	2908	6	17448				
8	Rotor Spider	6	2	i	5800	2800	2400	21000	6	126000				
				ii	5800	2800	2400	21000	6	126000				
9	Air Coolers	3	8	i	2300	2100	550	1200	3	3600				
				ii	2300	2100	550	1200	3	3600				
				iii	2300	2100	550	1200	3	3600				
				iv	2300	2100	550	1200	3	3600				
				v	2300	2100	550	1200	3	3600				
				vi	2300	2100	550	1200	3	3600				
				vii	2300	2100	550	1200	3	3600				
				viii	2300	2100	550	1200	3	3600				

SHIPPING DETAILS OF SUPPLIES (FROM APR'2013 TO MAR'2014)

			1	i	6600	4500	1000	25466	3	76398
			1	ii	6600	4500	1000	25466	3	76398
			1	iii	4500	4500	500	9245	3	27735

ANNEXURE-IIB

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan with interim storage

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)											
1	Guide Apparatus	3	1	iv	5600	5600	500	3996	3	11988	
			1	v	5600	5600	500	3996	3	11988	
			1	vi	2500	1660	1300	3720	3	11160	
			1	vii	2500	1660	1300	3720	3	11160	
			1	viii	2500	1660	1300	3720	3	11160	
			1	ix	2500	1660	1300	3720	3	11160	
			1	x	2500	1660	1300	3720	3	11160	
			1	xi	2000	1500	1000	1395	3	4185	
			1	xii	2000	1500	1000	1178	3	3534	
2	Guide Bearing	6	1	i	3000	3000	800	750	6	4500	
			1	ii	1200	1200	800	500	6	3000	
3	MONORAIL IN TURBINE PIT	6	1	i	3000	1000	600	1600	6	9600	
4	Platform & Railing in Turbine Pit	6	1	i	2100	1100	600	900	6	5400	
			1	ii	400	400	400	20	6	120	
			1	iii	3000	1000	850	950	6	5700	
5	Runner Aeration Equipment	6	1	i	2700	2700	750	2400	6	14400	
			1	ii	2100	2100	1500	700	6	4200	
			1	iii	1300	800	600	750	6	4500	
			1	iv	2300	1200	800	1250	6	7500	
			1	v	700	650	950	315	6	1890	
			1	vi	1800	700	550	100	6	600	
			1	vii	1300	800	600	750	6	4500	
			1	viii	700	650	950	315	6	1890	
			1	ix	1800	700	550	100	6	600	
6	Pipes in Turbine Pit	6	1	i	1220	780	560	715	6	4290	
			1	ii	1220	780	560	715	6	4290	
			1	iii	1220	780	560	715	6	4290	
			1	iv	1220	780	560	715	6	4290	
			1	v	1220	780	560	715	6	4290	
			1	vi	1220	780	560	715	6	4290	
7	Oil Pipe Lines	6	1	i	1220	780	560	715	6	4290	
			1	ii	1220	780	560	715	6	4290	
			1	iii	1220	780	560	715	6	4290	
			1	iv	1220	780	560	715	6	4290	
			1	v	1220	780	560	715	6	4290	
			1	vi	1220	780	560	715	6	4290	
8	Arrgt of Air Valve	6	1	i	2700	2700	750	2400	6	14400	
			1	ii	2700	2700	750	2400	6	14400	
9	Cooling Water System	1	12	i	2800	1500	1500	800	12	9600	
			8	ii	2000	2000	3000	1000	8	8000	
		6	1	iii	1220	780	560	715	6	4290	
			1	iv	1220	780	560	715	6	4290	
10	Compressed Air System	1	4	i	1000	1000	2200	900	4	3600	
			4	ii	1100	1100	2500	2000	4	8000	
			4	iii	6500	500	500	200	4	800	
			6	iv	1500	1500	1000	1200	6	7200	
11	Drainage & Dewatering system	1	2	i	2000	2000	2000	4000	2	8000	
			1	ii	2500	2500	2500	1600	1	1600	
			1	iii	700	700	1000	1600	1	1600	
			1	iv	5500	2000	2000	10000	1	10000	
			3	v	5500	2000	2000	31000	3	93000	
			11	vi	5500	2000	2000	16000	11	176000	
	Arrgt of Penstock butterfly valve										
			2	1	i	4200	1600	500	4500	2	9000
			2	1	ii	4200	1600	500	4500	2	9000

ANNEXURE-IIB

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan with interim storage

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)										
12	Seal clamping ring(Main & maintenance)	2	1	iii	2500	1000	2800	600	2	1200
	Foundation bolt, wedge, Plate	2	1	iv	2600	1000	1000	1650	2	3300
	LH counter weight	2	1	v	1500	1500	1000	8000	2	16000
	RH counter weight	2	1	vi	1500	1500	1000	8000	2	16000
	Hardwares	2	1	vii	1000	1000	1000	300	2	600
	Foundation Plates	2	1	viii	2700	1000	500	4000	2	8000
	Door hardware	2	1	ix	1000	1000	1000	550	2	1100
	Misc items	2	1	x	500	500	500	300	2	600
	Push pull hardware	2	1	xi	1000	1000	1000	300	2	600
13	Arrgt of Servomotor									
	RH Foundation plates & Hardware	2	1	i	2000	2000	2000	1900	2	3800
	RH Foundation bolts & misc items	2	1	ii	1000	1000	1000	1500	2	3000
	LH Foundation Plates & Hardwares	2	1	iii	2000	2000	2000	1900	2	3800
	LH Foundation bolts & misc items	2	1	iv	1000	1000	1000	1500	2	3000
14	Inlet Pipe									
	Inlet Pipe (In half)	2	1	i	7000	3500	3100	13000	2	26000
	Inlet Pipe (In half)	2	1	ii	7000	3500	2100	13000	2	26000
15	Outlet pipe with dismantling joint									
	Outlet pipe (In halves)	2	1	i	6600	3300	3200	13000	2	26000
	Outlet Pipe (In halves)	2	1	ii	6600	3300	3200	13000	2	26000
	Dismantling ring (In halves)	2	1	iii	8000	4000	1000	2100	2	4200
	Dismantling ring (In halves)	2	1	iv	8000	4000	1000	2100	2	4200
16	Tools, Tackles & Erection devices									
	Hardwares	1	1	i	2000	2000	1000	1700	1	1700
	Supports	1	1	ii	5000	3000	3000	1900	1	1900
	Slings	1	1	iii	3000	3000	2000	3200	1	3200
	Lifting Plates	1	1	iv	5000	3000	3000	2500	1	2500
	Lifting Brackets	1	1	v	5000	3000	3000	4000	1	4000
17	Testing devices									
	Testing equipments	1	1	i	7200	3800	2300	15000	1	15000
	Testing equipments	1	1	ii	7200	3800	2300	15000	1	15000
18	BFV Pipelines									
	Pipes	2	1	i	6000	3000	2000	5000	2	10000
	Pipes	2	1	ii	6000	3000	2000	2000	2	4000
	Pipe fittings	2	1	iii	2000	2000	2000	1000	2	2000
	Pipe supports	2	1	iv	1800	1800	1800	2500	2	5000
	Beam / channel	2	1	v	6000	3000	2000	1000	2	2000
	Valves	2	1	vi	2800	2800	2800	2000	2	4000
	Pipes	2	1	vii	6000	3000	2000	5000	2	10000
	Base & Foundation Plate	2	1	viii	2500	2500	2500	1700	2	3400
	Platform,railing stair case etc									
19	Frame	2	1	i	6000	3000	2000	2000	2	4000
	Support	2	1	ii	6000	3000	2000	1000	2	2000
	Main Inlet Valve			iii						
	U/S Body	6	1	iv	4500	1085	4500	16000	6	96000
	Trunnion	6	2	v	1700	1700	1600	9000	12	108000

ANNEXURE-IIB

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

List of Non-OD Consignments for transportation from BHEL Bhopal to Punatsangchhu Site in Bhutan with interim storage

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)

20	Lever	6	2	vi	4000	550	3000	10000	12	120000
	Weight Casing	6	1	vii	6400	800	4900	14000	6	84000
	Inlet Pipe to MIV	6	1	viii	3500	3500	2750	18000	6	108000
	Outlet Pipe to MIV	6	1	ix	3500	3500	2000	12000	6	72000
	Cable	1	120	x	2000	2000	1000	1000	120	120000
	Spare Labyrinths (Rotating) Upper	1	18	xi	5600	5600	500	1400	18	25200
	Spare Labyrinths (Rotating) Lower	1	18	xii	5600	5600	500	1200	18	21600
	Spare Labyrinths (Fixed) Upper	1	18	xiii	5600	5600	500	1400	18	25200
	Spare Labyrinths (Fixed) Lower	1	18	xiv	5600	5600	500	1200	18	21600
	Spare Liner Plates (Upper)	1	18	xv	5600	5600	500	1200	18	21600
Spare Liner Plates (Lower)	1	18	xvi	5600	5600	500	1200	18	21600	
Spare Guide Vanes	1	20	xvii	2500	1660	1300	4000	20	80000	
21	Air Cooler	3	8	i	2300	2100	550	1200	24	28800
22	Oil Coolers	6	2	i	800	500	350	180	12	2160
		6	8	ii	900	900	700	350	48	16800

Total Wt. 4687865

ANNEXURE- III

PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)

**List of Non-OD Consignments for direct transportation from BHEL-
EDN Bangalore to Punatsangchhu Site in Bhutan.**

SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2014)

Sl. No.	Panel	Weight in KGs.	Height (mm)	Width (mm)	Depth (mm)	Qty per Unit	Total Qty.	Total Weight(kg)
1	Auto Sequencer Equipment	3000	2415	3804	800	1	6	18000
2	Temp. Measrmt & Instrmnt Pnl.	1250	2415	1951	800	1	6	7500
3	Gauge Panel	700	2415	1000	800	1	6	4200
4	RTU-ASE at Turbine Floor	700	2415	800	800	1	6	4200
5	RTU-ASE at Generator Floor	700	2415	800	800	1	6	4200
6	RTU-ASE at Machine Hall	700	2415	800	800	1	6	4200
7	EHGC	700	2415	800	800	1	6	4200
8	Common Control Board	3000	2415	3804	800	-	1	3000
9	RTU for Common Control Board	700	2415	800	800	-	1	700
10	Switchyard Control Board	2250	2415	3053	800	-	1	2250
11	RTU at Dam	700	2415	800	800	-	1	700
12	RTU at BFV house	700	2415	800	800	-	1	700
13	RTU-1 for Switchyard Control Board	700	2415	800	800	-	1	700
14	RTU-2 for Switchyard Control Board	700	2415	800	800	-	1	700
15	UPS	4200	2415	6000	800	-	1	4200
16	GPS	700	2415	800	800	-	1	700
17	HMI Items like LVS, PC's, printers & one network Panel etc.	300	1500	500	700	-	20	6000
	Excitaion panels							
18	Regulation cubicle 1		2345	750	1200	1	6	12600
19	Regulation cubicle 2	2100	2345	1150	1200	1	6	12600
20	Field flashing cubicle		2345	1150	1200	1	6	12000
21	Field breaker cubicle	2000	2345	1500	1200	1	6	12000
22	Thyristor cubicles	3200	2345	680	1200	3	6	19200
23	Transformer cubicle	2000	3500	3450	1975	1	6	12000
24	Transformer	8000				1	6	48000
							Total Weight	194550

* all panels are electronic components and should be non stackable.

ANNEXURE- IV**PUNATSHANGCHHU-1 HYDROELECTRIC PROJECT (6X200MW)****List of Non-OD consignments for direct transportation from BHTEL****Jhansi to Punatsangchhu Site in Bhutan****SHIPPING DETAILS OF SUPPLIES (UPTO MAR'2013)**

S. No.	Item Description	No. of Units	No. of Boxes / Unit	Box Sizes in mm			Gr. weight	Total Wt.
				L	B	H	kg/Box	kg
1	1730KVA Dry Type Transformer	6	1	2480	2225	1340	6600	39600
2	1730KVA Dry Type Transformer (Spare)	1	1	2480	2225	1340	6600	6600

Total Wt. 46200

VOLUME-III, REV-01 PRICE SCHEDULE	
Transportation of Consignments from Various Manufacturing Units of BHEL to Punatsangchhu HEP with intermediate storage facility in Bhutan for 6 X 200 MW Punatsangchhu-I Hydroelectric project , Punatsangchhu, Bhutan	
TENDER NO. PSER:SCT:PSC-M1443:13	
PREAMBLE	
1.0	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully in rates for various items. Clauses under this preamble shall be read in conjunction with other volumes of tender as applicable.
2.0	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions.
3.0	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4.0	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment, strengthening of roads/culverts/bridges etc. including arranging all clearances etc. required for carrying out different activities & tests, materials, levies, taxes, transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the tender document and this schedule.
5	The items/quantities/weights of the various transportations mentioned in this schedule of items are approximate, based on preliminary information .
6.0	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.
7.0	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language.
8.0	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted.
9.0	The tender shall be deemed to have studied the specifications, details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
10.0	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
11.0	Evaluation shall be on total lowest quoted price only.
12.0	In the case of arrival of new items , Bidder shall have to execute the same as per notes given in Price schedule (SCH-2).

**VOLUME-III, REV-01
PRICE SCHEDULE**

**Transportation of Consignments from Various Manufacturing Units of BHEL to Punatsangchhu HEP with intermediate storage facility in
Bhutan for 6 X 200 MW Punatsangchhu-I Hydroelectric project , Punatsangchhu, Bhutan**

TENDER NO. PSER:SCT:PSC-M1443:13

MAIN PRICE (SCH-1)

SL NO	DESCRIPTION	QTY	AMOUNT (IN RS) (IN FIG. & IN WORDS)
1	Total price for transportation of all the consignments as per Annexure-I, IIA, IIB, III & IV from Various BHEL Unit i.e. Bhopal, EDN Bangalore & Jhansi to Punatsangchhu Project Site in Bhutan including custom clearance of all export consignments at Indo-Bhutan Border with the provision of storage area to be developed and maintained for the given stipulated time and storage of items as per Annexure-I & Annexure-II B as per the scope of work mentioned in the tender & any other related job whether mentioned or not but essentially required for completion of contract taking into account all changes/ clarifications indicated through TCNs .	1 Lot	
NOTE	The break up of prices of this summary of Prices(SCH-1) to be detailed in Price Schedule-SCH-2 & SCH-3.		

**VOL-III , REV-01
PRICE SCHEDULE**

**Transportation of Consignments from Various Manufacturing Units of BHEL to Punatsangchhu HEP with intermediate storage facility in Bhutan for 6 X 200 MW
Punatsangchhu -I Hydroelectric Project , Punatsangchhu , Bhutan .**

**TENDER NO. PSER:SCT:PSC-M1443:13
PRICE FOR TRANSPORTATION (SCH-2)**

Sl. NO.	Description	Total weight as per list (In MT) (a)	Rate per tonne (In Rupee) (b)	Total Amount (axb)
1	PART-A Transportation of consignments having weight more than or equal to 35 tonnes by Hydraulic trailers as mentioned in Annexure -I from BHEL Bhopal to storage area at Phuentsholing in Bhutan including all clearances like custom/Sales tax etc. of all consignments at Indo-Bhutan Border, storage & further transportation from storage area to Punatsangchhu Project Site.	2379.396		
2	PART-B (i) Transportation of consignments having weight less than 35 tonnes by trucks/ trailers as mentioned in Annexure -II A from BHEL Bhopal to Punatsangchhu Project Site including all clearances like custom/Sales tax etc. of all consignments at Indo-Bhutan Border & (ii) Transportation of consignments having weight less than 35 tonnes by trucks/ trailers as mentioned in Annexure -II B from BHEL Bhopal to storage area in Bhutan including all clearances like custom/Sales tax etc. of all consignments at Indo-Bhutan Border & further transportation from storage area to Punatsangchhu Project Site.	7732.100		
3	PART-C Transportation of all consignments having weight less than 35 tonnes by trucks/ trailers as mentioned in Annexure -III from BHEL-EDN, Bangalore to Punatsangchhu Project Site including all clearances like custom/Sales tax etc. of all consignments at Indo-Bhutan Border.	194.550		
4	PART-D Transportation of all consignments having weight less than 35 tonnes by trucks/ trailers as mentioned in Annexure -IV from BHEL Jhansi to Punatsangchhu Project Site including all clearances like custom/Sales tax etc. of all consignments at Indo-Bhutan Border.	46.200		
TOTAL				
TOTAL (In Words):				
Note :	(i) Weigh & dimension of individual item listed in Annexure-I, IIA, IIB, III & IV is indicative & may increase or decrease .			
	(ii) Total considered weight of all consignments in Annexure-I, IIA, IIB, III & IV may individually vary upto any extent on arrival of new items/deletion of existing items. However, the total variation in quantity(weight) of consignments in Annexure- I, IIA, II B, III & IV taken together will be limited to +/-30% of total weight of tendered quantity.			

**VOL-III, REV-01
PRICE SCHEDULE**

Transportation of Consignments from Various Manufacturing Units of BHEL to Punatsangchhu HEP with intermediate storage facility in Bhutan for 6 X 200 MW Punatsangchhu-I Hydroelectric project , Punatsangchhu, Bhutan

TENDER NO. PSER:SCT:PSC-M1443:13

PRICE SCHEDULE FOR STORAGE (SCH-3)

SI. NO.	Description	Quantity	Rate Lumpsum	Total amount
1	Construction/ arrangement of Storage Area (8000 sq.-m) at Phuentsholling or nearby area in Bhutan as per specifications/details provided in the tender.	1 Lot		
		No. of Months (c)	Rate Per Month (d)	Total amount (cxd)
2	Operation and maintenance of Storage Area(8000 sq.-m) at Phuentsholling or nearby area in Bhutan with facilities like unloading & loading of consignments, store-keeping, security, lightining, necessary material handling equipments, T&P & manpower etc. as detailed in the tender.	32		
	TOTAL Amount (in Figure)			
	(in Words)			
Note:	1. Requirement of Storage area may increase beyond envisaged 8000 sq.-m upto +30 %.			
	2. If additional area of storage is required, the additional amount will be paid on pro rata basis.			

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Transportation of Consignments from Various Manufacturing Units of BHEL to Punatsangchhu HEP with intermediate storage facility in Bhutan for 6 X 200 MW Punatsangchhu-I Hydroelectric Project, Punatsangchhu, Bhutan.	
Ref	1.0	Tender no PSER:SCT:PSC-M1443:13
	2.0	BHEL's NIT, vide reference no Ref: PSER:SCT:PSC-M1443:13 Dated 08/02/2013
	3.0	BHEL's TCN-01, vide ref no PSER:SCT:PSC-M1443:13:TCN-01 Dated 13/02/2013
	4.0	Other references (if any).

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, Integrity Pact (If applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)
POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091
फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691