

BHARAT HEAVY ELECTRICALS LIMITED
ELECTRONICS DIVISION
Mysore Road , BANGALORE - 560 026

Tender Enquiry No.:

BHEL:EDN:SHP:PKG:2012-14:ENQ

Date: 28.01.2013

1.0 NOTICE INVITING TENDER FOR PACKING

Bharat Heavy Electricals Limited, Electronics Division, Mysore Road, Bangalore – 560 026 herein invites application from experienced and reputed Packing Contractors for packing work of the products of the Company for a period of Two years, extendable for a further period of 6 months. The successful Contractor is required to comply with the Provisions of Contract Labour (R&A) Act.1970 and Minimum Wages Act 1948 , ESI , PF and other statutory regulations. The Packing Work will have to be done as per our Specifications, Terms and Conditions, using Contractors material, Labour and Tools etc. The packing works have to be carried out both at BHEL EDN Mysore Road Bangalore – 560 026 and at BHEL ESD Electronic City Hosur Road Bangalore - 560100.

Tender documents will be issued from BHEL EDN Bangalore Shipping Dept. from 09.00 hours to 15.00 hours on all working days, and from 09.00 hours to 11.00 hours on Saturdays.

Date of issue: 01.02.2013 to 21.02.2013 as per above said timings.

Last date for receipt of completed documents: 21.02.2013 up to 15.00 hrs. Technical bid will be opened at 15.30 hours on the same day, in the presence of bidders desirous to be present.

Tender Document charges :Rs.500/-

Complete details of Tender for Packing is hosted on www.bheledn.com , www.bhel.com & www.tenders.gov.in and can be directly downloaded and used for submission of tender. Document charges of Rs. 500/- shall be paid to BHEL along with Technical Bid or before submission of duly filled in tender forms. However due to limitation of volume in publishing on web site, vendors who downloads the tender form from website have to collect entire tender documents from BHEL Shipping department.

The undersigned reserves the right to reject any or all Tenders which are not as per tender terms, without assigning any reason there-of.

Additional General Manager – Shipping

**BHARAT HEAVY ELECTRICALS LIMITED
ELECTRONICS DIVISION
MYSORE ROAD, P.B.NO.2606
BANGALORE - 560 026**

NOTICE INVITING TENDER FOR PACKING

1. Tender Enquiry No. : BHEL:EDN:SHP:PKG:2012-14:ENQ
Dated 28.01.2013
2. Nature of the Work : Rate contract for Packing work of the Products of CE ,Semi-conductor Devices & Photovoltaic and associated components.
3. Contract Period : Two Years, extendable for a further period of 6 months.
4. Contract Total Value : Rs. 1375 lakhs (Estimated value)
4. Issue of Tender : **From 01.02.2013 to 21.02.2013** on
Monday to Friday 9.00 hrs to 15.00 hrs,
and on Saturdays 9.00 hrs to 11.00 hrs.
5. Nature of Tender/ bid : 2 Part Bid
6. Earnest Money Deposit [EMD]: Rs. 2,00,000/-
7. Last Date and Time for the receipt of completed Tender. : 21.02.2013 up to 15.00 Hours
8. Date , Time and Place of Tender Opening : 21.02.2013 at 15.30 hrs near Reception Tender Opening Room [Technical Bid only]
Price Bid will be opened for Technically acceptable bidders on intimation at later date.
9. Tender Document Value : Rs.500/-
10. Place of working : 1] BHEL EDN Mysore Road Bangalore and
2] BHEL ESD Electronic city, Hosur Road, Bangalore.
- The Tender Document contains : 253 sheets including this Sheet.

For and on behalf of
Bharat Heavy Electricals Limited
Electronics Division
Bangalore - 560 026

(A G M – SHIPPING)

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2.0 About BHEL

Bharat Heavy Electricals Limited, is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing companies in India in terms of turnover. We were established in 1964, ushering in the indigenous Heavy Electrical Equipment industry in India - a dream that has been more than realized with a well-recognized track record of performance. The company has been earning profits continuously since 1971-72 and paying dividends since 1976-77.

We are engaged in the design, engineering, manufacture, construction, testing, commissioning and servicing of a wide range of products and services for the core sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable Energy, Oil & Gas, and Defence. We have 15 manufacturing divisions, two repair units, four regional offices, eight service centers and 15 regional centers and currently operate at more than 150 project sites across India and abroad. We place strong emphasis on innovation and creative development of new technologies. Our research and development (R&D) efforts are aimed not only at improving the performance and efficiency of our existing products, but also at using state-of-the-art technologies and processes to develop new products. This enables us to have a strong customer orientation, to be sensitive to their needs and respond quickly to the changes in the market.

The high level of quality & reliability of our products is due to adherence to international standards by acquiring and adapting some of the best technologies from leading companies in the world including General Electric Company, Alstom SA, Siemens AG and Mitsubishi Heavy Industries Ltd., together with technologies developed in our own R&D centers .

Most of our manufacturing units and other entities have been accredited to Quality Management Systems (ISO 9001:2008), Environmental Management Systems (ISO 14001:2004) and Occupational Health & Safety Management Systems (OHSAS 18001:2007).

We have a share of 62% in India's total installed generating capacity contributing 72% (approx.) to the total power generated from utility sets (excluding non-conventional capacity) as of March 31, 2011.

We have been exporting our power and industry segment products and services for approximately 40 years. We have exported our products and services to more than 70 countries. We had cumulatively installed capacity of over 8,500 MW outside of India in 21 countries, including Malaysia, Iraq, the UAE, Egypt and New Zealand. Our physical exports range from turnkey projects to after sales services.

We work with a vision of becoming a world-class engineering enterprise, Committed to Enhancing Stakeholder value.

Our greatest strength is our highly skilled and committed workforce of 46,748 employees. Every employee is given an equal opportunity to develop himself and grow in his career. Continuous training and retraining, career planning, a positive work culture and participative style of management - all these have engendered development of a committed and motivated workforce setting new benchmarks in terms of productivity, quality and responsiveness.

3. Special instructions to Tenderers, Statutory Liability and Obligations

- 3.1 Sealed Tenders for the above work are hereby invited from the Contractors experienced in packing works of similar nature.
Please submit your offer in two parts in separate sealed covers as detailed below and both the sealed covers are to be put into one big sealed cover as mentioned below:

[3.1.1] First cover shall contain the following:

- (a) Techno-Commercial bid i.e., Questionnaire shall be submitted confirming acceptance to all the clauses indicated in this Tender along with EMD of Rs.2.00 lacs and enclosures as required by the Tender and any other which the Tenderer wish to submit.
- (b) A copy of the price bid without the prices (unpriced price bid).
 - This unpriced bid is required for technical evaluation of the relevant portion of the work, desired to be executed by the contractor. Please indicate in the unit rate column ' YES' for the job you have quoted in Price bid, and 'No' for the jobs you have not quoted.
- (c) Please indicate that you have gone through the entire tender document, and you have understood the same, and you will be abiding by the tender contents while executing the contract. [Sl. no. 9 of Table of contents].
These are to be put in one sealed envelope and superscribed with Tender reference and indicate on the cover as `Techno-Commercial Bid for Packing of CE, SC&PV Products and associated components`.

[3.1.2] Second cover containing the Price Bid

Price Bid duly filled & signed with seal, must be submitted in another separate sealed envelope superscribed with Tender reference and indicate on the cover as `Price Bid for Packing of CE, SC&PV Products and associated components`.

Price Bid envelope must contain only the unit rates and the following details:

- Material cost [Basic Value] for each unit rate & supply of finished shooks at BHEL-EDN & BHEL-ESD works.
- Applicable Excise Duty rate and amount for each unit rate.
- Packing service charges [Labour charges] for each unit rate.
- Applicable Service tax Rate on packing service charges – amount or %age for each unit rate
- Applicable Vat rates
- Other applicable taxes if any
- Cost to be indicated by multiplying unit rate & unit quantity.

If the price bid is found to be different from the unpriced price bid for any item of the rate contract, rate quoted for that item will be rejected.

(3.1.3) Sealed envelope of both (1) Techno-Commerical bid and (2) Price bid must be put in a single sealed larger envelope superscribed with Tender reference and due date must be sent within the specified date and time and dropped in the Tender Box earmarked with Shipping which is kept at Reception Counter, on or before the due date & time of tender.

(3.1.4) IMPORTANT POINTS:

- a) Please note that Price bid will be opened only for those technically qualified for the quoted items.
- b) Please, Do not spiral bound the pages, send them in 2 hole clips flat files.
- c) Give annexure numbers to all enclosures, and indicate serial numbers for all the Pages & put your signature & seal at the bottom of each page.
- d) Send your application with a covering letter on your company's letter head. If you are attaching a document which is not in English but in other local language. please attach an English translated page along with that, to understand what is written over there.

3.2 BHEL reserves the right to call for additional information and/or check, verify all the information furnished in the application.

3.3 BHEL also reserves the right to inspect all premises / facilities to confirm the authenticity of information furnished / capabilities mentioned in the application.

- 3.4 BHEL reserves the right to reject any or all the applications which are not as per tender terms without assigning any reasons whatsoever.
- 3.5 BHEL's decision shall be final on all the matters
- 3.6 Taxes and duties quoted by you will be taken for KVAT/Cenvat credit as per working schedule enclosed [enclosed under sl no . 12 of Table of Content]. The taxes and duties prevailing on the date will be considered. However in case of changes made by the Government from time to time, the same will be considered during the progress of contract for payment and claim purposes. In case no Tax/Duty is included, a self declaration for exemption may be attached along with the offer.
- 3.7 In this regard, if any clarification is required, the Tenderers may contact the officer mentioned here below:

Tenders should be addressed to:

AGM - Shipping
BHEL, Electronics Division,
Mysore Road, Bangalore – 560 026.
Phone : 26998376, 26998846.

- All the entries in the Tender Documents should be in one ink. Erasures and over-writings are not permitted. Cancellations and insertions if any, shall be authenticated by the tenderer by signing and affixing his seal .
- 3.8 Tenderer shall fill in all the required particulars in the blank spaces provided in the Tender documents and also sign at the bottom of each and every page of the Tender document before submitting the Tender.
- 3.9 In case the rates quoted in figures differ from those quoted in words, the lower will be taken as the Tendered rate and shall be binding on the Tenderers. The lowest price bid (L1) shall be arrived based on the basic value of item wise rates (basic unit rate covering material & service portion) excluding taxes and duties, service tax etc., or the decision of the tender committee is the final.
- 3.10 In quoting their rates, the Tenderers are advised to take into account all factors including any fluctuations in the market rates for materials in the future
- 3.11 The rates quoted in the Tender shall remain valid for a period of three months from the date of opening of the Price Bid.
- 3.12 Before submission of Tender, the Tenderers are necessarily advised to inspect the site of work and its environment and be well acquainted with the actual working and other prevailing conditions including various best practices adopted by BHEL with respect to position of the materials and labour. Pre bid meeting deliberating aspects involved in Job contract can be arranged on request to ensure proper understanding

- by the Tenderers who wish to participate. They should be well versed with BHEL General Conditions of Contract, Instructions to Tenderers, specifications and all other documents, which form part of the Agreement to be entered into subsequent to award of work.
- 3.13 Details and quantities of each item of work shown in the Tender schedule attached hereto are only approximate. They are given as a guideline for the purpose of Tendering only and are liable to variations and alterations at the discretion of the competent authority throughout the contract period of two years from the date of commencement of work. The work under each item as executed shall be measured and paid at the corresponding rates to be quoted by the Tenderer in the Tender schedule Format attached hereto. It shall not be based on number of persons deployed or on any other criteria.
- 3.14 The Packing work shall normally be done between 7.30AM and 4.36 PM on working days. However, the same shall be done beyond normal working hours on the directions of executing officers whenever the work load is temporarily increased. As this is a job contract no overtime allowance will be payable by BHEL for working beyond normal working hours.
- 3.15 **Period of contract:** The period of contract will be for a period of Two years from the date of award of contract. BHEL reserves the right to extend the period of contract on the existing terms and conditions for a further period of Six months, based on requirements of BHEL.
- 3.16 BHEL shall have absolute right to terminate the contract at any time during the period of contract without assigning any reason thereof and the tenderer is not entitled for any compensation on the ground of such termination.
- 3.17 If the party attends to do any act, which defames the goodwill of BHEL it will be treated as disqualification of the party and the contract will be terminated at any time.
- 3.18 **Disqualification :** The offers received from any party who had been convicted or against whom any kind of criminal cases are pending on complaint , will not be considered
- 3.19 **Contractor's statutory liability:** All statutory requirements under Minimum Wages Act 1948, Payment of Wages Act 1936, Workmen Compensation Act 1923, Payment of Gratuity Act 1972, ESI Act 1948, the Contract Labour (R&A) Act 1970, Payment of Bonus Act 1965, Income Tax Act 1961, Service Tax rules and all other applicable Acts and rules issued from time to time shall be complied with by the contractor.

3.20 Contractor shall ensure payment of statutory prescribed minimum wages by paying BHEL - EDN notified wages as applicable to his employees deployed in the work from time to time and maintain proper records of their timely disbursement. The notification of BHEL-EDN wages may be obtained by the contractor to be aware / conversant to the same. The periodic revision of this wages shall be noted by the contractor from time to time and the payment to his workers shall at no point of time be less than these minimum rates. For information the BHEL minimum wage rates during last 4 biannual revisions are shown in the table below to envisage the trend in fluctuations of wages. However, this trend may vary due to biannual average consumer price index and the Contractor shall pay according to BHEL – EDN Wage Rate.

BHEL Rates Notified during last 4 biannual periods taking into account biannual average consumer Price Index is given below:

Category	Wages per day				
	01/10/2010 to 31/03/2011	01/04/2011 to 30/09/2011	01/10/2011 to 1/03/2012	01/04/2012 to 30/09/2012	01.10.2012 to 31.03.2012
USW	Rs. 234.00	Rs. 247.00	Rs. 256.00	Rs. 278.57	Rs.279.00
SSW	Rs. 247.54	Rs. 260.54	Rs. 269.54	Rs. 292.54	Rs.292.97
SW	Rs. 262.23	Rs. 275.23	Rs. 284.23	Rs. 308.69	Rs.309.12
HSW	Rs. 278.92	Rs. 291.92	Rs. 300.92	Rs. 327.28	Rs.327.71

USW=Unskilled ,SSW=Semi-skilled , SW=Skilled , HSW= Highly skilled labour

Note: BHEL – EDN Notified wage rates are revised every six months, taking into account average consumer price index.

As a welfare measure towards his workers who may be deployed under this contract the Tenderer must consider Rs.30/- per day per person for Transport Allowance and Rs.10/- per day per person towards Attendance Bonus and take it into account for

the purpose of Estimate and the quoted rate shall be inclusive of the above incentives as well. Further, the Tenderer has to include Washing Allowance @ Rs.75 per month per person payable to his Workers deployed under this contract in the estimation and quoted unit rate shall be inclusive of such allowances.

BHEL reserves the right to advise the contractor to afford any further welfare facility in future (over & above the wage rates envisaged as mentioned above i.e., existing wage structure and also allowances as above) on reimbursement basis, for the employees of the contractor to defray their essential expenses.

The Successful tenderer shall provide annual Gift / Memento to his workmen to the tune of Rs.1500/- per annum.

3.21 The tenderer shall take notice that workmen engaged under this contract shall be provided with 2 pairs of uniform per annum with stitching charges , 2 pair of shoes covering 2 years period, 4 pairs of socks covering 2 years period, 1 no. of Toilet soap per person per month by the contractor, as per BHEL prevailing practice. This shall be included in the quoted unit rates.

3.22 ESI / PF Issues:

Contractor shall ensure payment of ESI contribution under ESI Act 1948 and provide ESI membership No. card of each employee.

Contractor shall maintain proper records of PF, EDLI, Pension, ESI contribution, administrative charges etc., wherever applicable and shall produce proof of deductions as well as remittances. Contractor shall issue wage slips to his employees.

Contractor shall furnish proper Returns to the concerned statutory authorities and provide a copy of the same to BHEL.

List of returns as given by HR are listed here.

I. EMPLOYEES STATE INSURANCE ACT, 1948

01.	Employer's Registration Form	01	Regulation 10 B	For obtaining employer's code.
02.	Declaration Form	1	Regulation 11 & 12	Within 10 days of appointment. For obtaining Insurance numbers from Local office.
03.	Return of Declaration Form	3	Regulation 15 A	Covering Letter of declaration form.
04.	Change in the family particulars	1-B	Regulation 15 B	Required whenever a change in family particulars.
05.	Return of Contribution	6	Regulation 26	To be submitted to the Regional office alongwith 6 challans of deposit of contribution within 42 days of the end of every contribution period.
06.	Advance payment of Contribution & Certificate of contribution payable	6 A	Regulation 31	In case contributions have been paid in advance.
07.	Accident Report	16	Regulation 68	To be filled in triplicate. Submitted within 48 hours in ordinary cases and immediately in death cases.
08.	In Accident cases	ESIC 32		To calculate the rate of disablement benefit and should be submitted alongwith accident report.
09.	Abstention Verification	28	Regulation 52 A	Initiated by the local office, to be filled in by the employer and returned to the Local office.
10.	Certificate of Re-Employment /continuing Employment	ESIC 37		To be given by the contractor, on re-entry into insurable employment.
11.	Application for change	ESIC 53		Effecting change in dispensary, residential address, Code no. Local office etc.,
12.	Wages / Contribution Record	ESIC 71		To ascertain the contributory particulars in the absence of return of contributions.
13.	Application for Duplicate Identity Card.	ESIC 72		To be filled by Insured person and countersigned by the employer and submitted to the local office.
14.	Certificate of Employment issued to IP by employer.	ESIC 86		To authorize medical benefit to newly appointed employees before their ID Cards are received.
15.	Certificate of entitlement for Medical Treatment	ESIC 105		To enable medical benefit at out station.
16.	Challans for Cash / Cheque Payment	S III / S IV		To be filled in quadruplicate and payment deposited in the State Bank of India or any other authorized bank within 21 days of following the end of the calendar month.

II EMPLOYEES PROVIDENT FUNDS AND MISCELLANEOUS PROVISIONS ACT, 1952.

01.	Form No. 2	Declaration Form
02..		Contribution Register Book
03.	Form 3 A	Annually to be sent before 30 th April, Enclosing Form - A
04.	Form No. 5	Newly Joining Members Monthly Returns.
05.	Form 6 A	Annual Returns
06.	Form No.9	Employee's Details
07.	Form No.10	Left Members Monthly Returns
08.	From 10 C	Pension Scheme – Claiming Withdrawal Benefit
09.	From 10 D	Application for claiming scheme certificate or pension under pension scheme.
10.	Form 12 A	Contribution amount statement alongwith Challans
11.	Form 13	Transfer of Accounts (Employees)
12.	Form 23	Annual Account from PF Authority.

These list of returns subject to verification whenever the statutory inspectors visit BHEL for inspection of records of the contractors.

Contractor should ensure that the employees allowed to enter BHEL premises shall be covered under independent code numbers / exemptions under EPF and ESI Act 1948 and shall cover his employees under the said codes. The contractor shall also indicate ESI No., PF No., Service Tax No. in the techno-commercial bid if available. In case the contractor do not have the ESI & PF Code while quoting, he should immediately apply for the same after award of the contract and get it in a reasonable time. Till such time BHEL sub code may be used with prior permission for a specified period of time.

- 3.23 Contractor shall be solely responsible for non payment / delayed payment of wages / allowances, contributions under EPF, ESI Act etc.
- 3.24 The basic rates to be quoted by the Tenderer shall be firm for material , and shall cover and include all statutory levies and contribution such as ESI, PF etc payable by the contractor for the workers he may deploy to carry out the job.[Under various enactments passed by Parliament or by the State legislature and Rules framed thereunder]. However for wages to be paid to their contract labourers – clause 3.20 will be applicable towards rate of wages.
- 3.26 In case, the contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities & a claim is made against BHEL for what so ever reason, the security deposit /other dues/ running bills under the contract can be utilized by BHEL to discharge the liability of the contractor.
- 3.27 Contractor shall indemnify BHEL against all claims and losses if it suffers under various labour laws, statutes or any civil or criminal law in connection with employees deployed by him.
- 3.28 The liability for any compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor, as BHEL is not the employer for him. Contractor shall obtain necessary insurance cover at his own cost to mitigate any risk of accidents, losses, damages etc. BHEL shall not be responsible for any losses, damages to the contractor or to his employees.
- 3.29 Payment of bonus under the Payment of Bonus Act, payment of gratuity under the Gratuity Act, and retrenchment compensation under ID Act will be the sole responsibility of the contractors. Contractor is liable to pay the minimum statutory bonus to their employees, as per payment of Bonus Act. In case BHEL advises the contractor to pay any additional amount of Bonus to their workers over and above the minimum statutory bonus, the same has to be paid by the contractor to their employees. The difference can be reimbursed from BHEL with indicated additional service charges.

- 3.30. Over and above the daily wages rate, the contractor shall make payment to his employees deployed under this contract towards leave with wages also.
- 3.31 Contractor shall observe provisions of Factories Act inspectorate of working hours, holidays, rest intervals, leaves and overtime to his employees who may be deployed in BHEL premises & maintenance of necessary registers, forms and statutory formats which shall be always available for inspection by BHEL or factory inspectorate. No work shall be done on second / third shift, overtime, Sundays or on other declared holidays without written permission from BHEL.
- 3.32 Contractor shall be responsible for making payment of wages before expiry of 7 (seven) days from the last day of wage period and to ensure disbursement of wages in the presence of the representative from BHEL.
- 3.33 In case the contractor does not carry out the contractual / statutory obligations or the services rendered by him are found to be unsatisfactory, BHEL shall bring the same to his notice and he will be obliged to discharge the obligations and rectify the deficiency / anomaly within three days time failing which, BHEL reserves the right to terminate the contract without assigning any reason whatsoever. In such an event, no damages will be payable for short closure of the contract and the contractor shall be liable to BHEL for any loss or hardships it may suffer, such termination shall be for the contractor's default and any money including deposits or bills available with BHEL will be forfeited and any further claim on the contractor may be made by BHEL for recovery of any loss. The decision of BHEL regarding interpretation of any terms and conditions set forth in this agreement shall be final and binding on the contractor.

3.34 **Contractor's Obligations:**

Contractor shall decide the number of workmen to be deployed for execution of the work awarded to him and he or his authorized representative will be solely entitled to instruct such workers about the manner in which the awarded work is to be carried out as per the prescribed specifications and as directed by Engineer-In-charge. The Contractor shall be fully responsible for the work awarded to him.

- 3.34.1 Contractor shall depute a supervisor to supervise work to be carried out by his workmen. The work shall be executed as per work instructions and to the satisfaction of Engineer-In-charge.
- 3.34.2 Contractor shall maintain appropriate records of his employees deployed to carry out the job(s). Contractor will be fully responsible for the good conduct of his employees deployed to execute the work. In case of any misconduct/ mis-behaviour by any employee, the contractor will replace such employee(s) immediately.
- 3.34.3 The contractor shall be responsible for enforcing all safety regulations as applicable strictly ensure wearing of safety equipments by them inside the factory. BHEL may provide hand gloves & other safety protective appliances wherever required.
- 3.34.4 The contractor has to provide a distinct uniform different from BHEL employees. The uniform should have logo of the contractors firm / company. The uniform shall be in neat, tidy and wearable condition.
- 3.34.5 Contractor to ensure that all precautions are taken for safety of his employees. The contractor shall be responsible for enforcing all safety regulations as applicable, while undertaking the work Tendered inside the factory.

3.34.6 In the event of termination of contract for any reason whatsoever, the contractor shall withdraw all his employees and his equipments, if any; from the establishment of BHEL.

3.34.7 The decision of BHEL regarding interpretation of any terms and conditions set forth in this agreement shall be final and binding on the contractor.

3.34.8 The contractor shall provide Employment certificate to his workmen and also shall obtain License in terms of statutory Regulations.

3.35 **Taxes and Duties:**

3.35.1 It is proposed to indicate item wise cost with applicable taxes and duties separately. It means please indicate separately a) basic unit material cost item- wise, b) applicable Excise Duty rate for material portion with amount, c) basic unit packing service charges item wise, d) service tax rate on packing service charges , e) VAT/CST percentage wherever applicable. Taxes and duties extra are reimbursable.

3.35.2 For cost comparison, the item COST to BHEL as per working Schedule enclosed at slno. 12 of table of contents will be considered. BHEL reserves the rights to alter the procedure / methodology for cost comparison after due verification of modvat / cenvat benefit issues which are relevant to this.

3.36 **Payment Terms:**

The Contractor shall submit his bill once in a month and the payment will be made within 30 days of receipt of the bill. For exceptional cases , multiple time bills per month are acceptable, when there is a heavy workload completed by the contractor in a particular month.

3.37 Methodology for Bills raising :

3.37.1 **Supply Bill:** At the time of supply of packing materials to BHEL , one Supply Bill to be prepared [original for buyer + modvat copy of invoice are required] accompanied by a delivery challan .

This bill shall contain the following:

- Packing shookees sizes with qty, area or volume as applicable and value
- This value shall be agreed rate as per rate contract
- Applicable Excise Duty and VAT / CST.

This Delivery challan will be duly verified by Security personnel and counter signed by user dept. and duplicate copy of invoice [modvat copy] will be sent to excise cell for taking cenvat credit on the supply portion and No payment will be made on these supply bills and original for buyer copy of invoice and original DC will be retained at shipping. This will also enable supplier for movement of goods from their works to BHEL Premises by their truck/tempo, and enable hassle free operations, in the eventuality of checking by Government authorities on the road.

Payment for consumables as per Part – II E shall be made upon supply after due receipt and verification.

No Service Tax is applicable for consumables.

3.37.2 Service Bill :

After completion of the packing work and full qty as per delivery challan is used , the vendor shall submit separate Bill for service cost which includes packing service charges as per rate contract item wise and relevant service tax.. Full service tax on packing service charges to be borne by the vendor and to be claimed by us.

One Extra copy of invoice [earlier supply bill] and , this service Bill required to be submitted for payment. Relevant Original buyer copy of invoice and Delivery challan which was retained at shipping and this service bill together will be taken for processing of payment of packing charges covering both material and packing

service charges. Supportive documents such as packing lists to be attached for these bills..

3.37.3 No payment will be made without taking cenvat credit at our end wherever applicable. For some of the contractor's, where Excise Duty is not applicable on various grounds, normal billing process will be in force till further guide lines. [Who are out side the purview of Excise Duty payment]. But Service tax is applicable as the case may be depending upon the notifications from time to time from the Dept. on the packing service charges. Service tax paid by contractor will be reimbursed.

3.38 'BHEL reserves the right to split the Contract and Award the Contract to more than one Party in accordance with the Policy of the Company. Contract will be awarded to a maximum of 6 contractors for each item type/part of work. If required BHEL will start negotiation with the parties who have quoted L1 rate for each item, and then counter offer the negotiated L1 rates of each item to other parties from L2, L3, L4 etc., till a maximum of 6 contractors are available for each type/part ,to have more than one contractor, at the same rates for each item at our disposal for smooth operations .The proposed ratio from L1 to L6 for awarding the contract on L1 rates/negotiated L1 rates will be approximately as follows:

L1 to L6 : 25:20:18:15:12:10

	L1	L2	L3	L4	L5	L6
Lx	% age	% age	% age	% age	% age	% age
L1	100					
L1,L2	60	40				
L1,L2,L3	50	30	20			
L1 TO L4	40	30	20	10		
L1 TO L5	30	25	20	15	10	
L1 TO L6	25	20	18	15	12	10

Note: Proportionate % ages will be considered for L1 to L6 if the quoted / negotiated rates are same for itemwise.

3.39 In addition to the above, the Packing work entrusted to each contractor depends on the following criteria , during the execution of the contract:

- (i) The Number of Workmen employed.
- (ii) Stock of Packing Materials supplied and kept at our works, by the Contractor at any point of time.
- (iii) Performance of the Contractor and timely completion of the work.
- (iv) Readiness of the Contractor to take-up the job at short notice and to meet our monthly schedule that will be issued periodically.
- (v) Raising to the occasion, during peak loads.

3.40 EARNEST MONEY DEPOSIT

The Tenderer shall furnish Earnest Money Deposit of Rs. 2,00,000/- (Rupees Two Lakhs only) towards all materials/ Products Packing. (This is as per Para 8.1 of Work Policy - extract of the same is furnished at para [c] of sl no. 8. i.e., Commercial Terms and Conditions).

3.41 SECURITY DEPOSIT

Successful Tenderer will have to furnish Security deposit of Rs.1 Lakh to Rs.10 Lakhs as per Para 8.2.1 of Works Policy the extract of the same is indicated at para [c]. of slno .8 .ie Commercial Terms and Conditions. This amount will be decided based on the work load being given to each of the successful tenderer after Award of Contract. This value is only a indicative one.

4 Minimum Qualifying Criteria for Selection in Techno-Commercial Bid

- 4.1 The Tenderer should have adequate experience in executing packing contracts or packing works, which is considered to be similar work. The Tenderer should have successfully completed similar works during the last 4 (Four) years from submission of Tender (2009 to 2012).
- 4.2 The Tenderer should have a legal status such as that of a Proprietary concern, Partnership firm, Company etc. The Tenderer should have been registered under relevant Act for carrying out the nature of work for which this Tender is invited.
- 4.3 The Tenderer should submit EMD of Rs.2.00 lacs along with Technical Bid. Offer/s without EMD is liable for rejection.
- 4.4 The Tenderers should have categorically confirmed acceptance of all the Tender terms and condition including the payment terms. On, non-compliance / conformity of the above, offer is liable for rejection
- 4.5 Tender Committee decision is the final for evaluation and acceptance for techno- commercial Bid, taking into account information furnished by the tenderer, visit to the tenderers works, documents verification etc.,
- 4.6 The Tenderer should have minimum facility, infrastructure and other required parameter to execute the order for which they have opted for quoting, in the unpriced price bid.
- 4.7 Party should give following declarations:
- a) We, hereby certify that we have not been blacklisted by any Public Sector Undertaking / Public Departments
 - b) I have gone through and understood the entire tender documents along with terms and conditions given in your above tender form and it is accepted and agreed by us.
- 4.8 The Packing contractors who are interested to participate in this tender must have established office and Timber work facilities situated in and around Bangalore , in order to enable them to supply and pack our products on day to day basis.

5.0 Scope of work and Tender Specification

The scope of work covers Packing work of the Products of CE, Semi-conductor Devices & Photovoltaic and associated components in BHEL EDN premises as well as at BHEL ESD premises as per applicable packing plant standards and product standards.

5.1 TENDER SPECIFICATION

- Part - I:**
- A) Technical Specification (Guidelines and Procedure) for Packing of Control Equipment Products, Semi-Conductor Devices (BHEL-EDN Plant Standard No. ED 049 00 99). Plant Standard enclosed.
- [\[Annexure – A\]](#)
- B) Technical Specification (Guidelines and Procedure for Packing of Control Equipment Products, Semi-Conductor Devices using Plywood (BHEL-EDN Plant Standard No.ED 049 00 92). Plant Standard enclosed.
- [\[Annexure – B\]](#)
- C) Technical Specification for Packing of Solar PV Modules.
- i) Scope of Work
ii) Packing Specification & Procedure for Packing. Product Standard enclosed.
- [\[Annexure – C\]](#)
- D) Technical Specification for Packing of Materials in Corrugated kraft paper cartons. Product Standard enclosed.
- [\[Annexure – D\]](#)

Part – II

Items list for Packing and supply :

- A] Schedule of Rates for Control Equipment Products, Semiconductor Devices using Rubber Wood / Silver oak wood / Pine wood.
- B] Schedule of Rates for Packing of Control Equipment Products Semiconductor Devices using Plywood of different Grades.
- C] Schedule of Rates for Packing of PV Modules in Cartons.
- D] Schedule of Rates for Packing of materials using heavy duty corrugated kraft paper cartons.
- E] Schedule of Rates for Packing consumables to be supplied by the Contractor.
- F] Schedule of Rates for Packing of Panels and other items with GI sheet.

PART – I [C]

TECHNICAL SPECIFICATION FOR PACKING OF SOLAR PV MODULES

A) SCOPE OF WORK

B) PACKING SPECIFICATION

A] SCOPE OF WORK:

The Packing involves the following:

1. Suitable assistance for shifting of materials to be packed from Production area to Packing area and arranging the same Customer-wise / rating-wise.
2. Writing module serial numbers in packing Notes / in additional sheet as enclosure to Packing notes.

Module sl nos have also to be indicated on the carton and in a separate pkg register .
3. Packing as described in Part - I (C)(B) Packing Specification as given below
4. Arranging the packed cartons neatly customer-wise.
5. In certain cases, PV modules will not be packed but will be sent in loose condition in Car, Tempo. In such cases loading will have to be done by the Contractor.
6. Except Packing Slip, all other packing materials including cartons, foams etc., have to be supplied by the contractor. These Packing materials will have to be approved by us for quality.

Part - IC [B]. PACKING SPECIFICATION:

Various types of Photovoltaic Modules shall be packed for dispatch to customers as per the following instructions.

The specifications for carton box & EP foam fitments for various configurations are as per document no: CD-4-4007-011 rev 07 'INSTRUCTION FOR PACKING OF PV MODULES' Complete PV packing specifications are kept separately in the folder.

Complete packing instructions are given in the above document indicating the drawing numbers for sub-item such as Carton, EP foam fitment and others. In a matrix form all these details are furnished for various types of PV modules starting from 35 watts to 270 Watts and above.

Complete details are given in the **Annexure – C**
[sln0 12 of Table of contents]

PART – I [D]

Technical Specification for Packing of Materials in Heavy Duty Corrugated kraft paper Cartons.

1.0 Scope:

The packing involves the following:

1.1 CE products and its components

2.0 Specifications:

The specification for packing of panels and other items using tri-wall corrugated kraft paper board or equivalent heavy duty board made out of kraft paper with other packing materials such as edge board, polythene sheet, silica gel, document pouch, stickers, roto lock, PVC strappings and etc.

Plywood / Timber pallet if required for the carton will have to be supplied by the vendor at the extra cost as per relevant rate contract applicable .

For details please refer **Annexure D**

Depending upon the size of the panel, carton with all other packing materials have to be organized for packing.

6.0 OTHER TECHNICAL POINTS

6.1 Quality of Materials

- 6.1.1 The Quality of materials used for Packing shall be as per I.S. Specification / BHEL Specification for each material. Each item (Eg: - Silica Gel, Kraft Paper etc.) is subject to inspection and approval by BHEL before the same is used. Any disapproved / non-standard item identified by BHEL shall be removed by the Contractor at once.
- 6.1.2 Species of Wood & extent of Chemical treatment will be subject to random check at least ONCE in a year at any reputed Laboratories. The Contractor is bound by the reports of these Laboratories. The charges towards testing are to be borne by the contractor.
- 6.1.3 The Contractor shall submit a certificate confirming the quality of wood supplied by him and the Chemical treatment done is as per the Tender Specification along with the monthly bill for the quantity billed.
- 6.1.4 If, for any reason, Rubber Wood / Silver Oak Wood / Pine wood is not available on a particular occasion, other wood considered equivalent to Rubber Wood/Silver Oak / Pine wood may be used with prior written permission from BHEL.
- 6.1.5 Handling of markings on the cases/panels have to be done using templates / stickers and suitable indelible inks. These have to be provided by the contractor at their cost.

6.2 Calculation of Wood content for the purpose of payment.

Rubber wood / Pine wood / Silveroak wood :

For Calculation of Wood content for the purpose of payment BHEL will consider

- 6.2.1 For Cubicles and Panels using Rubber wood, Silver oak wood and Pine wood, Length X Breadth X Thickness of FRONT, REAR, TWO SIDES & TOP PLANKS only will be calculated as bare volume, for panels without pallet. Pallet will be supplied by BHEL as part of Panel.
- 6.2.2 Length x Breadth x Thickness of Bottom Pallet will be Considered as bare volume if it is supplied by the Contractor.
- 6.2.3 In case of loose items packed in boxes including bottom pallet, all Six side Planks / shookees will be considered for calculation of bare volume.

6.2.4 The Volume of the following wood is also taken into consideration while calculating total wood content for the purpose of billing / payment. 40 percentage of above said bare volume will be added to the bare volume [6.2.1 , 6.2.2 and 6.2.3] calculated as above. This means for calculation of total volume of wood content, 1.4 times of bare volume,[2.1(a), 2.1 (b) and 2.1 (c)] as referred above will be considered.

- i. Reinforcing battens
- ii. Support battens
- iii. Beams given to the bottom side / pallet and etc.

6.3 Calculation of Wood content for the purpose of payment for Plywood Packing

6.3.1 In case of Packing of Cubicles with plywood, as per PART-I 'B' of Tender Specification, Calculations will be based on Area of Front, Rear, 2 sides and Top Planks only. For this, Payment will be made based on Square Area as described in the Schedule of Rates under Part – II 'B'. Pallet will be supplied by BHEL. Whenever pallet is supplied by contractor, area of the same will be considered for payment also. For spares and loose items cases, pallet will be supplied by the contractor.

6.3.2 Area of additional reepers, supporting battens and reinforcing battens will not be considered for payment of packing charges. Hence costs of these battens necessarily have to be included in the cost of main plywood area along with other packing materials. Seperate charges or rates are not allowed since payment for plywood rates are based on square meter of plywood content i.e., Total area of plywood used.

6.3.3 In case of bottom pallets supplied by the contractor, payment will be made on Area of wood content. The calculation is same as at 6.3.1. Additional reinforcement plywood sheet if used will be paid extra.

6.4 The Dust on the Loose Items & inside and outside the Cubicles shall be removed by the Contractor's workmen before Packing.

7.0 GENERAL TERMS AND CONDITIONS

1. Packing work will have to be done in the premises of the Company both at EDN and ESD .
2. Cleanliness has to be maintained by the Contractor's workmen in the Packing/Dispatch Area. Scrap materials to be removed and Shop floor of Shipping Section to be kept clean at the end of each day. Cut Pieces / Scrap belonging to Contractors materials to be removed and taken back with necessary paper works after duly certified by concerned executive.
3. Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the Specifications, Designs, Drawings and Instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in anyway arising out of or relating to the Contract, Designs, Drawings, Specifications, estimates, Instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the General Manager of Bharat Heavy Electricals Limited., Electronics Division. And if the General Manager is unable or unwilling to act, to the sole arbitration, some other person appointed by the General Manager willing to act as such arbitrator will be the Sole arbitrator. There will be no objection if the arbitrator so appointed is an employee of Bharat Heavy Electricals Limited, Electronics Division and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matter in dispute or difference. The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, such General Manager as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such persons shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

It is a terms of the contract that the party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

The work under the Contract shall if reasonably possible continue during the arbitration proceedings and no payment due or payable to the Contractor shall be with-held on account of such proceedings.

The arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the dates of the first hearing.

The arbitrator shall give a separate award in respect of each dispute or difference referred to him.

The venue of arbitration shall be such place as may be fixed by the arbitrator in his sole discretion.

The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

4. The Contractor shall comply with the provisions of the Workmen's Compensation Act 1923, the Payment of Wages Act 1936, the Factories Act 1948, Minimum Wages Act 1948, and Industrial Disputes Act 1947, and other Acts, Central or State, that may be applicable to him. He shall be liable to pay all such sum or sums, that may become payable as contribution, compensation, penalty, fine or otherwise, which the Management of BHEL may be called upon to make under the provision of the said Acts, to or on behalf of any workmen employed by the Contractor by an authority empowered under the relevant Act. Any cost incurred by the Management of BHEL in connection with any claim or proceedings under the said Acts, or in respect of loss, injury or damage howsoever negligent on accounts of imperfect or improper performance of this contract by the Contractor, his workmen, servants or agents and any money which may become payable to the Management of BHEL as aforesaid shall be deemed to be money due under the terms of this contract may be deducted by the Management of BHEL from any money due or accruing to the Contractor by the Management of BHEL or may be recovered by the Management of BHEL from the Contractor in any other manner.

- 3.46 (i) The Contractor should take independent Code Nos. under EPF Act 1952 and ESI Act 1948 and shall cover his workmen under the Employees Provident Fund Scheme and Employees State Insurance Act 1948 and show proof of payment of the subscriptions / contributions to the concerned authorities.

For new tenderers, who are not having independent codes, they can apply and get it once they are awarded the contract. Further they may also use BHEL sub-codes for remittance of contributions for a limited period with special permission, till independent code is obtained by them.

- (ii) As regards Employees State Insurance Act, the Contractor shall submit Photostat copies of the challans of remittance of the contributions (both employees contributions and his own contribution thereon) to the ESI Corporation, in respect of the employees engaged in BHEL by him for this work for the relevant period, before any payment is released by BHEL. In case the Contractor fails to submit full details of his account of Labour employed and the contribution payable an amount of contribution as assessed by us will be recovered from the running bills of the contractor. The amount so recovered will be adjusted against the actual contribution payable to Employee's State Insurance.

All applicable return forms to be filed periodically

- (iii) As regards the Employee's Provident Fund and Miscellaneous Provisions Act, 1952 and rules and regulations and schemes framed thereunder, he shall be liable to pay employees contributions and his own contribution under the Act in respect of all labour employed by him for the execution of the contract. For this purpose, he shall indicate the Code Number obtained by him from the Regional Provident fund commissioner and produce the Photostatic copy of the Challan receipt of Monthly remittance of the contributions made by him. . He shall also furnish such returns as are due, under the Act, to be sent to the appropriate authorities through BHEL as the Principal Employer. All applicable return forms to be filed periodically
6. The BHEL General conditions of Contract shall also apply to this work, except to the extent modified in these conditions. The Contractor shall scrutinize the GCC available in BHEL-EDN and acquaints himself with the provisions thereof, to his satisfaction.
 7. Failure to employ adequate number of persons, or failure to supply required qty of packing materials, resulting in dislocation of the work will be construed as breach of the terms and conditions under this agreement, and will entail termination of the Contract forthwith and re-arrangement of the work through other agencies, at the risk and cost of the Contractor.
 8. The Contractor shall take, at his own cost, the necessary License in respect of his Trade/Business, in respect of this work. The expenses in completing the formalities in executing the agreement including expenses on Stamp Paper, will also be met by the Contractor.
 9. The Management of BHEL shall have the right to with-hold Payment of, or make recoveries from claims due to them in respect of any loss or damage caused or occasioned in respect of the properties of BHEL under the Terms and Conditions of this arrangement or any payments necessitated due to infringement of any statutory obligations, by the Contractor.
 10. The Contractor shall not transfer or sublet the work to anyone without the prior written approval of BHEL. The Contractor shall, either by himself or through a competent Agent approved by BHEL Authorities, perform the said work.
 11. Whenever under the Contract any sum of Money shall be recoverable from, or payable by the Contractor, the Contractor on demand shall pay the same. Such amount may also be deducted from any sum then due, or from any sum which at any time thereafter become due, to the Contractor under this Security Deposit, in respect of this work or in respect of any other work.
 12. All the employees of the Contractor engaged for the work shall be paid by him their normal wages, for the National Holidays and Public Holidays declared by BHEL for that Calendar year.
 13. Without prejudice to any rights or remedies under this Agreement if the Contractor dies, the BHEL authorities shall have the right to terminate this agreement without any liability whatsoever as regards enlistment of the work for the balance Contract period after the death of the Contractor.

14. The Contractor shall apply and obtain Licence under the Contract Labour (R&A) Act 1970, and comply with the relevant Provisions of this Act, in respect of the Labour employed by him for executing this Contract. The Contractor shall furnish necessary returns to the authority through the principle employer.
15. **Compliance with Labour Laws:-** BHEL shall, on any report having been made by an Inspecting Officer as defined in the Contractor's Labour Regulations, have the Power to deduct from the Money due to the Contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the contract or non-observance of the said Contractor's Labour Regulations.

The Contractor shall indemnify BHEL against any payment to be made under and for observance of the Regulations aforesaid.

16. In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid contractor's Labour Regulations, as amended from time to time or furnishing any information or submitting or filling any Form / Register / Slip under the Provisions of these regulations which is materially incorrect, then, on the report of the Inspecting officers as defined in the Contractors Labour Regulations, the Contractors shall, without prejudice to any other liability, pay to BHEL, a sum not exceeding 10% of contract value as liquidated damages for every default, or furnishing, making, submitting, filling materially incorrect statement as may be fixed by BHEL. Such amount will be deducted from the running Bills/Security Deposit of the Contractor and the amount would be credited to the Welfare Fund constituted under Regulations.
17. **Model Rules for Labour Welfare:-**

The Contractor, at his own expense comply with or cause to be complied with Model Rules and Labour Welfare as appended to these conditions or rules framed by Government from time to time for the protection of Health of the Labourers. In case, the contractor fails to make arrangements as aforesaid BHEL will be entitled to do so and recover the cost thereof from the Contractor.
18. The Contractor should take full care regarding safety aspects. In case of any Accidents / Injuries to the Contractor's Labourers within the premises of the Company (BHEL), the Contractor is solely responsible and no claims whatsoever on the Company (BHEL) is permissible.
19. Successful tenderer should provide the following safety Personal Protective items to his labourers during working period and shall ensure safe working habits and safe working conditions. All these expenditures have to be borne by the tenderer only. BHEL will not reimburse the same.

**Sl. No. Personal Protective. Eqpt. - qty:
/ Items**

1. Safety spectacle - 1 no |
2. Ear Muff - 1 no | Makes & Specifi-
3. Ear Plug - 1 set | cation as per
4. Dust Mist respirator - 1 no | enclosed Sheet.
5. Hand gloves - 1 pair |
6. Soap - 1 no. per month

Indicated approximate cost of these safety items excluding Shoes will be approx. Rs.600/-.

20. The Contractor shall be equipped to pack at least 4 Cubic Metres of Wood content or equivalent to 10 Cubicles of Control Equipment Products per day.
21. In case there is any delay in completion of the job as referred above, Company will be at liberty to levy penalty on the Contractor at the rate of 0.01% of the total value of equipment to be packed per day of delay subject to a maximum of 1%.
22. The Company does not give any Guarantee on minimum work load during the Day / Month / Year. The workload varies within the Month and within the year.
23. In case of emergency, if the Contractor fails to do the Packing work within the stipulated time, the same will be got done elsewhere / through others. Penalty may be levied on the Contractor as at (21) above.
24. In case it is found that the species of Wood/ASCU treatment do not conform to the Specification, Penalty not exceeding 10% of the value of the packing cost of that packing work will be levied and deducted from the monthly bill.

In addition, the Company (BHEL) will have the option to terminate the Contract.
25. The Contractor and his workmen shall abide by the Rules relating to maintenance of discipline and Security checks of the Company.
26. All Tools, Equipments, required for Packing shall be supplied by the Contractor which will be returned after closure of the contract duration.
27. Packing of Small Boxes for Speed Post, R.P.P. Airfreight, Personal Carry is normally done by the Company's Staff. However in case of emergency, the Contractor's Workmen shall do this work using Company's materials. Labour charges will be paid as per contract rate for labour charges for respective items.

28 If any Packing material individually is required, the Contractor shall supply these at rates offered as per Schedule 'E' of Part – V –Rate Schedule

Ex:- Cubicles are normally covered by one Polythene cover. If, in some cases, Double covering has to be done, the extra cost of Second cover will be paid to the Contractor.

All Tools, Equipments and Materials brought by the contractor shall be entered in the Register kept in the Security Department.

8.0 COMMERCIAL TERMS AND CONDITIONS

EARNEST MONEY DEPOSIT

- a] The Tenderer shall furnish Earnest Money Deposit of Rs. 2,00,000/- (Rupees Two Lakhs only) towards all materials / Products Packing. (This is as per Para 8.1 of Work Policy - extract of the same is furnished at para [c]).
- b] Tenderer shall furnish Earnest Money Deposit in the Form of Bank Demand Draft in favour of BHARAT HEAVY ELECTRICALS LTD., ELECTRONICS DIVISION. This Demand Draft shall be submitted along with the Tender Offer: i.e., Questionnaire – at sl.no. 10. Techno-commercial Bid . Offers not accompanied by EMD will be rejected.

The EMD given by unsuccessful Tenderers will be returned after the Tender is finalised. EMD amount shall not carry any interest. EMD amount can also be adjusted towards the Security deposit.

- c] Extract of EMD details as per works policy called at para 8.1

8.1 Earnest Money Deposit (EMD)

- 8.1.1. Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. The rate of earnest money deposit shall be as under:

Works costing upto Rs. 2 lakh	:	Nil
Works costing more than Rs.2 lakh and upto Rs. 5 lakhs	:	Rs. 10,000/-
Works costing more than Rs.5 lakhs and upto Rs. 10 lakhs	:	Rs. 20,000/-
Works costing more than Rs.10 lakhs and upto Rs.20 lakhs	:	Rs. 40,000/-
Works costing more than Rs.20 lakhs and upto Rs.30 lakhs	:	Rs. 60,000/-
Works costing more than Rs.30 lakhs and upto Rs.50 lakhs	:	Rs. 1,00,000/-
Works costing more than Rs.50 lakhs and upto Rs.100 lakhs	:	Rs. 1,50,000/-
Works costing more than Rs.100 lakhs	:	Rs. 2,00,000/-
For all Capital Works costing more than Rs.100 lakhs maximum EMD will be	:	Rs. 2 lakhs.
One time EMD will also be	:	Rs. 2 lakhs.

For SAS jobs and other smaller / routine type of jobs such as maintenance / servicing etc., the maximum value of EMD as well as one time EMD will be Rs.1,00,000/-.

EMD is to be collected in cash (as permissible under Income Tax Act), Pay Order or Demand Draft only.

However,

- (i) The EMD may be waived or amount reduced in the following cases with prior approval of the Head of the contracting deptt. not below the rank of AGM:
 - a]Joint Venture companies of BHEL
 - b] Central / State PSUs / Govt. deptts. / Autonomous / Educational / Reasearch Institutions
 - c]Consultancy Services : Banking , Insurance and other professional services.
 - d]Leasing of assets
 - e]Hiring of Vehicles
 - f]Catering , Horticulture and Sanitation services
- ii) The EMD may be waived in other cases for reasons to be recorded and approved by the Unit Head.
- iii) One time EMD (lumpsum amount) for exemption from payment of EMD with each tender may be permitted by next higher authority not below the rank of AGM limited to Unit Head.

8.1.2.1 EMD by the Tenderer will be forfeited as per Tender Documents, if

- i) After opening the tender, the tenderer revokes his tender within the validity period or increase his earlier quoted rates.
- ii) The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard when within 15 days after award of contract.

8.1.3 EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.

8.1.4 EMD shall not carry any interest.

8.2. SECURITY DEPOSIT

a] Successful Tenderer will have to furnish Security deposit of Rs.1.00 Lakh to Rs.10.00 Lakhs as per Para 8.2.1 of Works Policy the extract of the same is indicated at para [c]. This amount will be decided based on the work load being given to each of the successful tenderer after Award of Contract. This value is only a indicative one.

b] The Security Deposit may be furnished in the form of Cash / Bank Draft / Bank Guarantee immediately after the award of the Contract. Earnest Money Deposit already received would be returned on receipt of Security Deposit as above. The Security Deposit will be released / returned after the successful completion of the Contract. The Security Deposit shall not bear interest. This Security Deposit will be forfeited and credited to BHEL in the event of breach of any of the Terms and Conditions of the Contract by the Contractor.

c] Extract of Security Deposit details as per works policy called at para 8.2

8.2.1 Security Deposit should be collected from the successful tenderer. The rate of Security Deposit will be as below:

Upto Rs.10 Lakhs	- 10%
Above Rs.10 Lakhs upto Rs.50 Lakhs	- 1 Lakh + 7.5% of the amount exceeding Rs.10 Lakhs.
Above Rs.50 Lakhs	- Rs. 4 Lakhs + 5% of the amount exceeding Rs.50 Lakhs.

The Security Deposit should be collected before start of the work by the contractor.

8.2.2. Security Deposit may be furnished in any one of the following forms.

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL
- iii) Local Cheques of Scheduled Banks, subject to realization
- iv) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patra etc.,

(Certificates should be held in the name of Contractor furnishing the Security and duly pledged in favour of BHEL and discharged on the back)

- v) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- vi) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractors, A/c BHEL, duly discharged on the back.
- vii) Security Deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.
- viii) EMD of the successful tenderer shall be converted and adjusted against the Security Deposit.
- ix) The Security Deposit shall not carry any interest.

NOTE:

Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

- 8.2.3. Security Deposit shall not be refunded to the contractor except in accordance with the terms of the contract.
- 8.2.4. The Security Deposit may be waived or amount reduced in following cases with prior approval of the Head of the Contracting dept. not below the rank of AGM :
 - a] Joint Venture companies of BHEL.
 - b] Central / State PSUs / Govt. deptts.
 - c] Autonomous / Educational / Research Institutions for contract value upto **Rs. 2 lacs**
 - d] Repair / Maintenance of equipments by OEMs / OESs
 - e] Rental / Hiring of Premises / Vehicles etc., where owners / contractor's assets are being let out to / used by BHEL
 - f] Catering , Horticulture and Sanitation services for contract value upto **Rs. 2 lacs.**
- 8.2.5. The Security Deposit may be waived or amount reduced in other cases to be recorded with prior approval of the Unit Head.

8.3. TERMS OF PAYMENT:

- 8.3.1 The Contractor shall submit his bill once in a Month and payment will be made within 30 days of date of receipt of the bill. However submission of bills twice in a Month can be considered in special cases at the discretion of Management of BHEL-EDN, where packing load is heavy.
- 8.3.2 The Tenderer who are not adhering to BHEL's Terms of Payment is likely to be rejected. All statutory deductions under Income Tax Act., works contract Act.or any other Law will be deducted by the BHEL as per rate in force.
- 8.3.1 The Company is not bound to accept the lowest Tender and decision of the Management of the Company is final. No reasons, whatsoever will be given by the Company for not accepting the offer of any Tenderer.
- 8.3.2 The Tender shall be kept valid for acceptance by BHEL upto 3 months from the date of opening of Price Bid. Tenderers will not be allowed to alter the Prices during the validity period.
- 8.3.3 The Company may short close / cancel the Contract if the Performance of the Contractor is found unsatisfactory.

9.0 Techno Commercial Bid

Tenderer Data (Technical bid) - Questionnaire

Questionnaire - Data to be filled in by the Tenderer i.e., slno .9 with all relevant documents and sealed in cover superscribing as "**TENDER FOR PACKING - Techno Commercial Bid - Questionnaire** " and required to be dropped in the Tender Box.

QUESTIONNAIRE

A. DATA TO BE FILLED BY THE TENDERER

Note: The question with mark 'M' is Mandatory

1. Name in Full under which :
the Tenderer is trading [M]
2. Address of the Official :
Premises [M]
 - a) Office
 - b) Works
3. Telephone No. [M]
 - a) Office
 - b) Works
 - c) Residence of Partner / Proprietor / Director
4. Registered as: Public Limited Company/Private Limited
Company / Proprietary Company [M]
(Strike which ever is not applicable)
5. Names & Address of : i)
Partners/Directors
if any ii)
iii)
iv)

6. Details of Saw Mill [M]

- a) Is the plot on which Saw :
Mill / workshop is situated
owned leased by you.

[Please enclose supporting
Documents]

- b) Are the Materials and :
Machinery & Building
Insured against Fire etc.
[Please enclose copy of
Insurance Certificate]

- c) Area of the Plot :

- d) Size of the Building :

- e) Details of Machines and :
associated facilities.
Please give, Description
make, Sl.No.& Year of
Manufacture

i)

ii)

iii)

iv)

v)

vi)

- f) No. of Labourers employed at the Mill.

- g) No.of Labourers available to be
posted at BHEL-EDN for Packing works.

- h) Since how long are you
running the said Mill / workshop.

7. Have you obtained permission?
from Karnataka Forest Dept.
to run the Saw Mill.

(Alternatively have you got
No Objection Certificate from
Karnataka Forest Department
to run the Saw Mill.

(Please enclose copy of permission / N O C)

8. Please furnish the following:
Registration Nos. (Copies of certificates to be necessarily enclosed)

a) K S T Registration No. :

b) C S T Registration No. :

c) Shops & Establishment Act
Registration No.

d) Forest Licence No. :

e) Service Tax Registration No:

f) TIN no [M] :

g) PAN No: [M] :

9. a) Has your Firm been assessed:
from Sales Tax Authorities ?
Please enclose latest Sales Tax
Assessment Certificate) for
a period of 3 years.

b) Has your Firm been assessed:
from Income Tax Authorities?
(Please enclose latest Income Tax
Assessment Certificate) for a
period of last 3 years.

10. Does your firm have Independent Code Nos. in respect of following and if yes, mention the same.

a) Employees State Insurance Act 1948 (ESI) :
-Code No. Yes / No

b) Employees Provident Fund Act 1952 (EPF) :
-Code No. Yes / No

11. Banker's Name & Address :

12. a) Your Annual Financial " Turn Over " during the last 4 years in the similar lines of Packing. [M] : 2008 - 09 - 2009 - 10 - 2010 - 11 - 2011 - 12 -

13. a) Experience of having successfully completed / undertaken similar works during previous 4 Years [M] :

b) indicating Names of Clients to whom :

i) Packing Cases are being supplied by you. [M]

ii) Packing work is being done by you. [M] :
(Please enclose copies of Purchase Orders / work orders.

14. Earnest Money Deposit DD details: [M]

a) Bank Draft No. and date :

b) Banker Name :

c) Amount taken : **Rs. 2,00,000/-** [] \

15. [M] I / We also read the tender terms and conditions completely and understood the same. : Yes / No

16. [M] We give our acceptance to supply as per tender specifications. : Yes / No

17. [M] We hereby give our declaration that we have read the Tender completely and understood the same. : Yes / No

Please enclose the copies of applicable Registration Certificates for the above.

18. Please give the details of documents enclosed to your offer which include applicable Registration certificates and other necessary documents to support your techno commercial bid.

i]

ii]

iii]

iv]

- v]
- vi]
- vii]
- viii]
- ix]
- x]
- xi]
- xii]

I / We hereby Certify that to the best of my/our knowledge, the particulars furnished above are true. It is understood that the information furnished will be treated as confidential and will not be divulged to unauthorised persons.

I / We also agree to the General Terms and Conditions & Commercial Terms and Conditions as shown at sl. no. 8 of this Tender Notification.

I / We also agree to keep the validity of our Quotation for acceptance for a period of 3 months from the date of opening of the price bids.

I/We also agree not to increase our quoted rates if called for negotiations.

Date : _____
Place: Signature of the Tenderer

NAME:

DESIGNATION:

10.0 Un Price Bid Format

11.0 Price Bid Format

12.0 Annexures

Plant standard details/ specifications attached

[Annexure - A](#) - Rubber wood / Silver wood / pine wood Pkg

[Annexure - B](#) - Plywood Packing

Annexure - C - PV Packing

Annexure - D - Heavy Duty Carton packing

Annexure - E - HVDC Packing

Annexure - F - Working Schedule on Taxes and Duties

Annexure - G - Drawings and other Documents.

PART – II A		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ		Un Priced Price Bid	
Schedule of Rates for Control Equipment Products, Semiconductor Devices using Rubber wood/Silver oak /Pine wood.					
Please refer to plant standard No.ED 049 00 99			Note : Indicate Only Quoted or Not Quoted		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
1	Packing of Cubicles with Rubber Wood as described at 3.1 of Part - I 'A' of Tender Specification	Cubic Metre	2000		
2	Packing of Cubicles with Silver Oak / Pine wood as described at 3.2 of Part-I 'A' of Tender Specification	- do -	200		
3	Packing of Loose Items with Rubber Wood As described at 3.4 of Part-I 'A' of Tender Specification	- do -	400		
4	Packing of Loose Items with Silver Oak / Pine wood as described at 3.5 of Part-I 'A' of Tender Specification	- do -	50		
5	Packing with Bitumen Coated Hessein Cloth etc., as described at 3.7 of Part-I 'A' of Tender Specification	Square Metre	2000		
Note : Indicate Only Quoted or Not Quoted					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing					
Un Priced Price Bid			Note : Indicate Only Quoted or Not Quoted		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
1	Packing of Cubicles with Plywood along with plywood support batten and other details as described under Part-I 'B' using [ref figures 10, 11 and 12 of plant std ED 0490092]				
	a) 12 mm thick Comml Plywood - MR Grade IS:303 [ref clause 6.1 of plant std ED 0490092]	Unit Square Metre of Plywood Sheet Content	7500		
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303 [ref clause 6.1 of plant std ED 0490092]	Unit Square Metre of Plywood Sheet Content	1000		
	c) 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	Unit Square Metre of Plywood Sheet Content	300		

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing					
Un Priced Price Bid		Note : Indicate Only Quoted or Not Quoted			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
2	Packing of Cubicles with Plywood and silver oak wooden support batten as described under 6.0 to 6.1.8 of Part-I 'B' [ref figures 4 and 5 of plant std ED 0490092] using				
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3000		
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	500		
	c) 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	Unit Square Metre of Plywood Sheet Content	300		
3	Packing of Cubicles like Railways and equivalent bigger / heavier size panels with Plywood along with plywood support batten , mechanical latching unit and other details are as described under 6.0 to 6.1.8 of Part-I 'B' [ref figures 8 and 7 of plant std ED 0490092] using				
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3500		
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	325		
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	130		

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing					
Un Priced Price Bid		Note : Indicate Only Quoted or Not Quoted			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
4	Packing of Cubicles like Railways and equivalent bigger / heavier size panels with Plywood along with Silveroak support batten and other details are as described under 6.0 to 6.1.8 of Part-I 'B' [ref figures 9 of plant std ED 0490092] using				
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3000		
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	325		
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	130		
5	Packing of Loose items / spares and other items with Plywood along with plywood support batten and other details are as described under 6.0 to 6.1.8 of Part-I 'B' using [ref figures 13 of plant std ED 0490092]				
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3000		
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	500		

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing					
Un Priced Price Bid		Note : Indicate Only Quoted or Not Quoted			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	500		
6	Packing of Loose items / spares and other items with Plywood along with silver oak wood support batten and other details are as described under 6.0 to 6.1.8 of Part-I 'B' using [ref figures 4 of plant std ED 0490092]				
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	2000		
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	500		
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	500		
7	Packing of items suitable for speedpost / courier service using 12 mm Thick Commercial Plywood [MR grade] for sides and 6 mm Thick Commercial Plywood for Top and Bottom with all other Packing Materials including Bitumen kraft Paper covering using Gum . Sketch enclosed ref: 805-RPP- BOX - 001	Per Square Metre	4000		
8	Packing of items suitable for Speedpost using all sides with 12 mm Thick Commercial Plywood [MR Grade] general purpose with other following pkg materials: Silicagel, Polythene Cover for items, PVC strappings and markings. [No rubber wood supporting battens] sketch enclosed ref. :805 - RPP - BOX - 001	Per Square Metre	5000		
9	Labour charges for packing of materials in plywood using all other materials except plywood. Plywood will be supplied by BHEL..	Per Square Metre	1300		

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing					
Un Priced Price Bid			Note : Indicate Only Quoted or Not Quoted		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
10	Packing of HVDC Thyristor Modules using following Plywood box having internal size of 1256 x 874 x 398 mm with ply wood pallet and EPE [Expanded poly ethylene] foam fitments of high density ,Humidity indicator,special Dessicant, 200 microns polythene cover and other items as per ABB drawing 1JNL 100107-593 . Total 12 types EP foam fitments of different sizes and qty are reqd. Out of 12 types, 9 types are as per ABB drg and other 3 are of following sizes: a) 1256 x 874 x 50 mm thick - 1 no , b) 600 x 275 x 65 mm - 1 no and [c] 600 x 275 x 80 mm - 1 no	per box			
	a) 12 mm thick Comml Plywood - MR Grade IS:303 [ref clause 6.1 of plant std ED 0490092]	per box	300		
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303 [ref clause 6.1 of plant std ED 0490092]	per box	50		
	c) 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	per box	50		

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing					
Un Priced Price Bid		Note : Indicate Only Quoted or Not Quoted			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
11	Packing of HVDC Thyristor Modules using following Plywood box having internal size of 1256 x 874 x 398 mm with ply wood pallet and EPP [Expanded Polypropylene] foam fitments,Humidity indicator,special Dessicant, 200 microns polythene cover and other items as per ABB drawing 1JNL 100107-593. Total 12 types EP foam fitments of different sizes and qty are reqd. Out of 12 types, 9 types are as per ABB drg and other 3 are of following sizes: a] 1256 x 874 x 50 mm thick - 1 no , b] 600 x 275 x 65 mm - 1 no and [c] 600 x 275 x 80 mm - 1 no	per box	new		
	a) with 12 mm thick Comml Plywood - MR Grade IS:303 [ref clause 6.1 of plant std ED 0490092]	per box		300	
	b) with 12 mm thick Comml Plywood - BWR Grade IS : 303 [ref clause 6.1 of plant std ED 0490092]	per box		25	
	c) with 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	per box		25	
12	Packing of HVDC Thyristor Modules using special pine Plywood box having internal size 1256 x 874 x 398 mm with ply wood / pine pallet and with out EPE / EPP foam fitments, with Humidity indicator,special Dessicant, 200 microns polythene cover and other items as per ABB drawing 1JNL 100107-593 [Special EPP / EPE will be BHEL scope]	per box		100	
TOTAL					
Note : Indicate Only Quoted or Not Quoted					

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ									
		Schedule of Rates for Packing of PV Modules in Cartons										Un Priced Price Bid	
SI No	Type of Packing	unit	Estimated for Two years		Estimated for Two years		Indicate Quoted / Not Quoted		Remarks				
			Total Quantity of Modules		qty of cartons		2012-14						
			2012-14		2012-14		2012-14						
1.1	Module Type	L1240 (12V,40W)	Per Carton	1000	200								
	Module Size[mm]	Spec for carton								Spec for EP foam fitments			
	qty												
	553*663*38.5	5								PS-439-200	PS-439-031		
	Packing of 40 Watts PV Modules												
	(5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 600 x305 x 725 mm with 6 Nos. Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
	applicable Spec. Nos.:												
	CD-4-4007-011												
1.2	Module Type	L1240 (12V,40W)	Per Carton	200	200								
	Module Size[mm]	Spec for carton								Spec for EP foam fitments			
	qty												
	553*663*38.5	1								PS-439-203	PS-439-196		
	Packing of 40 Watts PV Modules												
	(1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 600 x 305 x 725 mm with 6 Nos. Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
	applicable Spec. Nos.:												
	CD-4-4007-011												

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ							
		Schedule of Rates for Packing of PV Modules in Cartons								Un Priced Price Bid	
SI No	Type of Packing						unit	Estimated for Two years	Estimated for Two years	Indicate Quoted / Not Quoted	Remarks
								Total Quantity of Modules	qty of cartons		
	2012-14	2012-14	2012-14								
1.3	Module Type	L1240-S (12V,40W)				Per Carton	64000	400			
	Module Size[mm]		Spec for carton	Spec for EP foam fitments							
	qty										
	678*528*38.5	5	PS-439-039	PS-439-031							
	Packing of 40 Watts PV Modules (5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size 725 x 305 x 590 mm with 6 Nos. Foam fitments, individual Polythene Sheet Cover 700 Gauge for modules, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
	CD-4-4007-011										
1.4	Module Type	L1240-S (12V,40W)				Per Carton	1000	200			
	Module Size[mm]		Spec for carton	Spec for EP foam fitments							
	qty										
	678*528*38.5	1	PS-439-204	PS-439-196							
	Packing of 40 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 725 x 305 x 590 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
	applicable Spec.Nos. CD-4-4007-011										

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ															
Schedule of Rates for Packing of PV Modules in Cartons												Un Priced Price Bid							
SI No	Type of Packing										unit	Estimated for Two years	Estimated for Two years	Indicate Quoted / Not Quoted	Remarks				
												Total Quantity of Modules	qty of cartons			2012-14	2012-14		
												2012-14	2012-14						
1.5	Module Type	L1260 (12V,60W)									Per Carton	100	100						
	Module Size[mm]		Spec for carton	Spec for EP foam fitments															
	qty																		
	793*663*38.5	5	PS-439-201	PS-439-031															
	Packing of 60 Watts PV Modules (5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 840 x 305 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)																		
	applicable Spec. Nos. : CD-4-4007-011																		
1.6	Module Type	L1260 (12V,60W)									Per Carton	144000	400						
	Module Size[mm]		Spec for carton	Spec for EP foam fitments															
	qty																		
	793*663*38.5	1	PS-439-205	PS-439-196															
	Packing of 60 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 840 x 85 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)																		
	applicable Spec. Nos. : CD-4-4007-011																		

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ									
		Schedule of Rates for Packing of PV Modules in Cartons										Un Priced Price Bid	
SI No	Type of Packing						unit	Estimated for Two years	Estimated for Two years	Indicate Quoted / Not Quoted	Remarks		
								Total Quantity of Modules	qty of cartons				
	2012-14	2012-14	2012-14										
1.7	Module Type	L1280 (12V,80W)					Per Carton	1200	200				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
		qty											
	1023*663*38.5	5	PS-439-202	PS-438-681									
	Packing of 80 Watts PV Modules (5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1070 x 305 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
applicable Spec. Nos.: CD-4-4007-011													
1.8	Module Type	L1280 (12V,80W)					Per Carton	200	100				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
		qty											
	1023*663*38.5	1	PS-439-206	PS-439-197									
	Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1070 x 85 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
applicable Spec. Nos. : CD-4-4007-011													

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ							
		Schedule of Rates for Packing of PV Modules in Cartons								Un Priced Price Bid	
SI No	Type of Packing						unit	Estimated for Two years	Estimated for Two years	Indicate Quoted / Not Quoted	Remarks
								Total Quantity of Modules	qty of cartons		
	2012-14	2012-14	2012-14								
1.9	Module Type	L1280-S (12V,80W)					Per Carton	2400	200		
	Module Size[mm]		Spec for carton	Spec for EP foam fitments							
		qty									
	1203*528*38.5	5	PS-438-682	PS-438-681							
	Packing of 80 Watts PV Modules (5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1250 x 305 x 590 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
applicable Spec. Nos.:											
CD-4-4007-011											
1.10	Module Type	L1280-S (12V,80W)					Per Carton	300	100		
	Module Size[mm]		Spec for carton	Spec for EP foam fitments							
		qty									
	1203*528*38.5	1	PS-439-207	PS-439-197							
	Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1250 x 85 x 590 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
applicable Spec. Nos.:											
CD-4-4007-011											

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ									
		Schedule of Rates for Packing of PV Modules in Cartons										Un Priced Price Bid	
SI No	Type of Packing						unit	Estimated for Two years	Estimated for Two years	Indicate Quoted / Not Quoted	Remarks		
								Total Quantity of Modules	qty of cartons				
	2012-14	2012-14	2012-14										
1.11	Module Type	L12130 (12V,130W)					Per Carton	100	400				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
	qty												
	1495*665*50	2	PS-439-212	PS-439-028									
	Packing of 130 Watts PV Modules (2 in 1) in 5 Ply 250 GSM Corrugated Carton with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
	applicable Spec. Nos.: CD-4-4007-011												
1.12	Module Type	L12130 (12V,130W)					Per Carton	100	100				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
	qty												
	1495*665*50	1	PS-439-208	PS-439-198									
	Packing of 130 Watts PV Modules (1 in 1) in 5 Ply 250 GSM Corrugated Carton of internal size of 1540 x 95 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
	applicable Spec. Nos.: CD-4-4007-011												

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ									
		Schedule of Rates for Packing of PV Modules in Cartons										Un Priced Price Bid	
SI No	Type of Packing						unit	Estimated for Two years	Estimated for Two years	Indicate Quoted / Not Quoted	Remarks		
								Total Quantity of Modules	qty of cartons				
	2012-14	2012-14	2012-14										
1.13	Module Type	L24170 (24V,170W)					Per Carton	64000	1500				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
	qty												
	1309*789*50	16	3-679-02-00323	NIL									
	Packing of 170 Watts PV Modules												
(16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 1615 x 875 x 820 mm with plywood pallet of size 1615 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos													
applicable Spec. Nos.:													
CD-4-4007-013													
1.14	Module Type	L24170 (24V,170W)					Per Carton	1000	500				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
	qty												
	1594*789*50	2	PS-439-027	PS-439-028									
	Packing of 170 Watts PV Modules												
(2 in 1) in 5 Ply 250 GSM Corrugated Carton of internal size of 1640 x 160 x 850 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)													
applicable Spec. Nos.:													
CD-4-4007-011													

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ																												
		Schedule of Rates for Packing of PV Modules in Cartons										Un Priced Price Bid																				
SI No	Type of Packing	unit	Estimated for Two years		Estimated for Two years		Indicate Quoted / Not Quoted		Remarks																							
			Total Quantity of Modules		qty of cartons																											
			2012-14		2012-14		2012-14																									
1.15	<table border="1"> <tr> <td>Module Type</td> <td colspan="3">L24170 (24V,170W)</td> </tr> <tr> <td>Module Size[mm]</td> <td>qty</td> <td>Spec for carton</td> <td>Spec for EP foam fitments</td> </tr> <tr> <td>1309*789*50</td> <td>1</td> <td>PS-439-209</td> <td>PS-439-198</td> </tr> <tr> <td colspan="4">Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1640 x 95 x 850 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)</td> </tr> <tr> <td colspan="4">applicable Spec. Nos. :</td> </tr> <tr> <td colspan="4">CD-4-4007-011</td> </tr> </table>	Module Type	L24170 (24V,170W)			Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments	1309*789*50	1	PS-439-209	PS-439-198	Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1640 x 95 x 850 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)				applicable Spec. Nos. :				CD-4-4007-011				Per Carton	100	100				
Module Type	L24170 (24V,170W)																															
Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments																													
1309*789*50	1	PS-439-209	PS-439-198																													
Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1640 x 95 x 850 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)																																
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1.16	<table border="1"> <tr> <td>Module Type</td> <td colspan="3">L20220 (20V,220W)</td> </tr> <tr> <td>Module Size[mm]</td> <td>qty</td> <td>Spec for carton</td> <td>Spec for EP foam fitments</td> </tr> <tr> <td>1655*995*50</td> <td>16</td> <td>3-679-02-00324</td> <td>NIL</td> </tr> <tr> <td colspan="4">Packing of 220 Watts PV Modules (16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 1675 x 875 x 1020 mm with plywood pallet of size 1675 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos</td> </tr> <tr> <td colspan="4">applicable Spec. Nos.:</td> </tr> <tr> <td colspan="4">CD-4-4007-013</td> </tr> </table>	Module Type	L20220 (20V,220W)			Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments	1655*995*50	16	3-679-02-00324	NIL	Packing of 220 Watts PV Modules (16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 1675 x 875 x 1020 mm with plywood pallet of size 1675 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos				applicable Spec. Nos.:				CD-4-4007-013				Per Carton	144000	2500				
Module Type	L20220 (20V,220W)																															
Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments																													
1655*995*50	16	3-679-02-00324	NIL																													
Packing of 220 Watts PV Modules (16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 1675 x 875 x 1020 mm with plywood pallet of size 1675 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos																																
applicable Spec. Nos.:																																
CD-4-4007-013																																

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ																																		
		Schedule of Rates for Packing of PV Modules in Cartons										Un Priced Price Bid																										
SI No	Type of Packing	unit	Estimated for Two years		Estimated for Two years		Indicate Quoted / Not Quoted		Remarks																													
			Total Quantity of Modules		qty of cartons		2012-14																															
			2012-14		2012-14		2012-14																															
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Module Type	L20220 (20V,220W)																																					
Module Size[mm]		Spec for carton	Spec for EP foam fitments																																			
qty																																						
1655*995*50	2	PS-439-213	PS-439-215																																			
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Module Type	L20220 (20V,220W)																																					
Module Size[mm]		Spec for carton	Spec for EP foam fitments																																			
qty																																						
1655*995*50	1	PS-439-210	PS-439-119																																			
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		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ									
		Schedule of Rates for Packing of PV Modules in Cartons										Un Priced Price Bid	
SI No	Type of Packing						unit	Estimated for Two years	Estimated for Two years	Indicate Quoted / Not Quoted	Remarks		
								Total Quantity of Modules	qty of cartons				
	2012-14	2012-14	2012-14										
1.19	Module Type	L24270 (24V,270W)					Per Carton	2400	150				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
	qty												
	1975*995*50	16	3-679-02-00325	NIL									
	Packing of 270 Watts PV Modules (16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 2000 x 875 x 1020 mm with plywood pallet of size 2000 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos												
	applicable Spec. Nos.:												
	CD-4-4007-013												
1.20	Module Type	L24270 (20V,220W)					Per Carton	300	150				
	Module Size[mm]		Spec for carton	Spec for EP foam fitments									
	Qty												
	1975*995*50	2	PS-439-214	PS-439-215									
	Packing of 270 Watts PV Modules (2 in One) in 7 Ply 250 GSM Corrugated Carton of internal size 2020 x 160 x 1055 mm with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
	applicable Spec. Nos.:												
	CD-4-4007-011												

		Part – II C		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ																																			
		Schedule of Rates for Packing of PV Modules in Cartons								Un Priced Price Bid																													
SI No	Type of Packing	unit	Estimated for Two years		Estimated for Two years		Indicate Quoted / Not Quoted		Remarks																														
			Total Quantity of Modules		qty of cartons		2012-14		2012-14																														
			2012-14		2012-14		2012-14		2012-14																														
1.21	<table border="1"> <tr> <td>Module Type</td> <td colspan="3">L24220 (24V,220W)</td> </tr> <tr> <td>Module Size[mm]</td> <td></td> <td>Spec for carton</td> <td>Spec for EP foam fitments</td> </tr> <tr> <td>qty</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1975*995*50</td> <td>1</td> <td>PS-439-211</td> <td>PS-439-199</td> </tr> <tr> <td colspan="4">Packing of 270 Watts PV Modules</td> </tr> <tr> <td colspan="4">(1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size 2020 x 95 x 1055mm with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)</td> </tr> <tr> <td colspan="4">applicable Spec. Nos. :</td> </tr> <tr> <td colspan="4">CD-4-4007-011</td> </tr> </table>	Module Type	L24220 (24V,220W)			Module Size[mm]		Spec for carton	Spec for EP foam fitments	qty				1975*995*50	1	PS-439-211	PS-439-199	Packing of 270 Watts PV Modules				(1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size 2020 x 95 x 1055mm with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)				applicable Spec. Nos. :				CD-4-4007-011				Per Carton	100	100			
Module Type	L24220 (24V,220W)																																						
Module Size[mm]		Spec for carton	Spec for EP foam fitments																																				
qty																																							
1975*995*50	1	PS-439-211	PS-439-199																																				
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applicable Spec. Nos. :																																							
CD-4-4007-011																																							
1.22	Labour charges for unpacking / Repacking of pv module cartons. All packing materials will be provided by BHEL.	per carton			1000																																		
Note : Indicate Only Quoted or Not Quoted																																							

PART –II [D]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
SCHEDULE OF RATES FOR PACKING OF MATERIALS USING HEAVY DUTY CORRUGATED KRAFT PAPER CARTON					
Un Priced Price Bid					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indcate Quoted / Not Quoted	Remarks
1	Packing of panels using heavy duty corrugated box as per pkg specifications outlined at Part – I D with all other packing materials such as polythene sheet 700g, silicagel, coir, edge board, plywood, pvc strappings, markings and stickers/labels.	Per Sq. Mtr	3,900		
2	Packing of loose items,spares and similar items using heavy duty corrugated box as per pkg specifications outlined at Part – I D with all other packing materials such as polythene sheet 700g, silicagel, coir, edge board, rotolock, document pouch, plywood, pvc strappings, markings and stickers / labels.	Per Sq. Mtr	1,300		
	Note : Indicate Only Quoted or Not Quoted				

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
					Un Priced Price Bid
Schedule of Rates for packing consumables to be supplied by the contractor					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
1	Silicagel	Kgs.	1000		
2	Polythene Sheet (175 Micron)	Kgs.	1000		
3	Polythene Sheet (200 Micron)	Kgs.	1000		
4	Iron Clamps	Each	1300		
5	Hoop Iron (0.6 mm Thick)	Kgs.	650		
6	Rubberised Coir	Kgs.	1300		
7	Tarfelt	Square Mtrs.	1300		

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
					Un Priced Price Bid
Schedule of Rates for packing consumables to be supplied by the contractor					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
8	Nails (2" and 2 – ½")	Kgs.	650		
9	Packing Note Holder	Each	1300		
10	Name Plate	Each	1300		
11	Rubber Wood	Cu mtrs	50		
12	Bituminised Water Proof Kraft Paper	Square Metres	650		
13	Plywood of a] 6 mm thk MR Grade	Sq mtrs	1000		
	b) 12 mm thick of MR Grade	Sq mtrs	1000		
14	Labour Charges for providing GI Sheet Covering the cases.	Square Metres	10000		

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
					Un Priced Price Bid
Schedule of Rates for packing consumables to be supplied by the contractor					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
15	Labour Charges for packing of items in cartons . Cartons supplied by BHEL . [Only Labour charges]	per carton / box	1300		
	Labour Charges for unpacking / Re-packing of cases	Per case			
16	a) Cubicles		1300		
	b) Small Cases		1300		
17	Air Bubble Roll of 1.5 m wide x 100 mtrs long or equivalent qty having Dia of air bubble :9.5 mm or more and 450 Gauge.	Roll	200		
18	2 Ply corrugated paper roll [Non vergin] of 100 GSM size : 1 m x 100 m long	roll	200		

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
					Un Priced Price Bid
Schedule of Rates for packing consumables to be supplied by the contractor					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
19	EP foam sheets of size : 1000 mm x 500 mm x 50 mm thick with normal density	no	3000		
20	Expanded Polyethylene foam packing box for LEG Module Packing as per drawing 3-688-04-10022 ver 02	no	400		
21	Expanded Polyethylene foam packing box for Thyristor Module packing as per drawing 1-699-22-50084 rev 00	no	250		
22	Expanded Polyethylene foam Corner Block as per drawing having size : 250 x 250 x 200 mm with wall thickness of 50 mm	no	2000		

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
					Un Priced Price Bid
Schedule of Rates for packing consumables to be supplied by the contractor					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
23	Sun Pac cartons of different sizes having sheet thickness of 5 mm with suitable side locking system and side handling system as per drawing ' sun pac carton '	no			
	a] 520 x 300 x 350 mm	no	1000		
	b] 600 x 600 x 400 mm	no	1000		
	c] 300 x 300 x 200 mm	no	1000		
	d] 600 x 300 x 300 mm	no	1000		
	e] 350 x 350 x 300 mm	no	1000		
	f] Sun Pac sheets of 4 mm thick having size : 2.00 metres long x 1.3 metres wide x 4 mm thk	no	400		

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
					Un Priced Price Bid
Schedule of Rates for packing consumables to be supplied by the contractor					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
24	Sun Pac cartons of different sizes having sheet thickness of 5 mm with suitable side locking system and side handling system as per drawing ' sun pac carton '	sq metres of carton	400		
25	Thermocole sheets size : 1m x 0.5 metre width x 15 mm thick of normal density	no	6000		
26	Nails suitable for speedpost parcels size : 14 G x 1.25 inch long	Kgs.			
27	GUM - utility Brand suitable for speed post parcel packing , qty : 700 ml bottle	no	500		
28	BOPP Gum Tapes [self adhesive] Size: 2" x 65 metre long roll heavy Guage	roll	1000		
29	BOPP Gum Tapes [self adhesive] Size: 3" x 65 metre long roll heavy Guage	roll	1000		

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			
					Un Priced Price Bid
Schedule of Rates for packing consumables to be supplied by the contractor					
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
30	Supply of GI sheets having thick ness 0.3 mm plus 0.01 and minus 0.05	Kgs.	10000		
31	Supply EPE [Expanded PolyEthylene foam fitments] high density meant for HVDC Packing as per ABB Drawing 1JNL 100107-593 . Total 12 types . 9 types with different qty as per ABB drg and 1no full sheet of EPE foam shhet of 50 mm thick of size : 1256 x 874 mm Normal Density and 2 more EP foam fitments of size a) 600 x 275 x 65 mm - 1 no [b] 600 x 275 x 80 mm - 1 no	set	600		
32	Bag with Dessicant , Size : 200 x 130 x 30 mm minimum having 250 grams Dessicant packet . Esorb / Unisorb or equivalent one as per drgs attached at Ann - 12	no	10000		
33	Supply of Aluminium foil cover with sealing of standard gauge in different sizes.	square meter of aluminium foil cover	1000		
Note : Indicate Only Quoted or Not Quoted					

Part – II [F]

Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ

Un Priced Price Bid

Schedule of Rates for packing of Panels and other items using GI sheet

SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Indicate Quoted / Not Quoted	Remarks
1	Packing of panels with Galvanised Iron Sheet of Thickness 0.3 mm +/- 0.05 with suitable Nails & Wooden batten for covering packed cases (including Labour Charges)	Square Metres	40000		

Note : Indicate Only Quoted or Not Quoted

PART – II		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013		
[A] Schedule of Rates for Control Equipment Products, Semiconductor Devices using Rubber wood/Silver oak /Pine wood.								Price Bid
Please refer to plant standard No.ED 049 00 99			Part - II - A					
						Breakup of Basic unit rate for 2012-14		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
1	Packing of Cubicles with Rubber Wood as described at 3.1 of Part - I 'A' of Tender Specification	Cubic Metre	2000					
2	Packing of Cubicles with Silver Oak / Pine wood as described at 3.2 of Part-I 'A' of Tender Specification	- do -	200					
3	Packing of Loose Items with Rubber Wood As described at 3.4 of Part-I 'A' of Tender Specification	- do -	400					
4	Packing of Loose Items with Silver Oak / Pine wood as described at 3.5 of Part-I 'A' of Tender Specification	- do -	50					
5	Packing with Bitumen Coated Hessein Cloth etc., as described at 3.7 of Part-I 'A' of Tender Specification	Square Metre	2000					
Sub – Total for Part - II 'A'								
Note :								
1. Please give your lowest offer covering the following:								
a. Basic unit rate [Material and Packing service charges]								
b. Applicable taxes and duties with reference to cenvat claim / benefit								
c. Calculation of wood: is as per clause 6.2 under Other Technical points.								
d. Volume determination : is as per clause 6.2.4 and for billing / payment 40 % of volume will be considered extra over and above the bare volume . About 1.4 times of bare volume as referred at 6.2.1 ,6,2,2 and 6.2.3 is considered.								

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
					Breakup of Basic unit rate for 2012-14			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
1	Packing of Cubicles with Plywood along with plywood support batten and other details as described under Part-I 'B' using [ref figures 10, 11 and 12 of plant std ED 0490092]							
	a) 12 mm thick Comm1 Plywood - MR Grade IS:303 [ref clause 6.1 of plant std ED 0490092]	Unit Square Metre of Plywood Sheet Content	7500					
	b) 12 mm thick Comm1 Plywood - BWR Grade IS : 303 [ref clause 6.1 of plant std ED 0490092]	Unit Square Metre of Plywood Sheet Content	1000					
	c) 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	Unit Square Metre of Plywood Sheet Content	300					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
						Breakup of Basic unit rate for 2012-14		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
2	Packing of Cubicles with Plywood and silver oak wooden support batten as described under 6.0 to 6.1.8 of Part-I 'B' [ref figures 4 and 5 of plant std ED 0490092] using							
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3000					
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	500					
	c) 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	Unit Square Metre of Plywood Sheet Content	300					
3	Packing of Cubicles like Railways and equivalent bigger / heavier size panels with Plywood along with plywood support batten , mechanical latching unit and other details are as described under 6.0 to 6.1.8 of Part-I 'B' [ref figures 8 and 7 of plant std ED 0490092] using							
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3500					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	325					
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	130					
4	Packing of Cubicles like Railways and equivalent bigger / heavier size panels with Plywood along with Silveroak support batten and other details are as described under 6.0 to 6.1.8 of Part-I 'B' [ref figures 9 of plant std ED 0490092] using							
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3000					
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	325					
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	130					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
					Breakup of Basic unit rate for 2012-14			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
5	Packing of Loose items / spares and other items with Plywood along with plywood support batten and other details are as described under 6.0 to 6.1.8 of Part-I 'B' using [ref figures 13 of plant std ED 0490092]							
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	3000					
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	500					
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	500					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
						Breakup of Basic unit rate for 2012-14		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
6	Packing of Loose items / spares and other items with Plywood along with silver oak wood support batten and other details are as described under 6.0 to 6.1.8 of Part-I 'B' using [ref figures 4 of plant std ED 0490092]							
	a) 12 mm thick Comml Plywood - MR Grade IS:303	Unit Square Metre of Plywood Sheet Content	2000					
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303	Unit Square Metre of Plywood Sheet Content	500					
	c) 12 mm thick Plywood - Marine Grade IS : 710	Unit Square Metre of Plywood Sheet Content	500					
7	Packing of items suitable for speedpost / courier service using 12 mm Thick Commercial Plywood [MR grade] for sides and 6 mm Thick Commercial Plywood for Top and Bottom with all other Packing Materials including Bitumen kraft Paper covering using Gum . Sketch enclosed ref: 805-RPP- BOX - 001	Per Square Metre	4000					
8	Packing of items suitable for Speedpost using all sides with 12 mm Thick Commercial Plywood [MR Grade] general purpose with other following pkg materials: Silicagel, Polythene Cover for items, PVC strappings and markings. [No rubber wood supporting battens] sketch enclosed ref: .805 - RPP - BOX - 001	Per Square Metre	5000					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
					Breakup of Basic unit rate for 2012-14			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
9	Labour charges for packing of materials in plywood using all other materials except plywood. Plywood will be supplied by BHEL..	Per Square Metre	1300					
10	Packing of HVDC Thyristor Modules using following Plywood box having internal size of 1256 x 874 x 398 mm with ply wood pallet and EPE [Expanded poly ethylene] foam fitments of high density ,Humidity indicator,special Dessicant, 200 microns polythene cover and other items as per ABB drawing 1JNL 100107-593 . Total 12 types EP foam fitments of different sizes and qty are reqd. Out of 12 types, 9 types are as per ABB drg and other 3 are of following sizes: a] 1256 x 874 x 50 mm thick - 1 no , b] 600 x 275 x 65 mm - 1 no and [c] 600 x 275 x 80 mm - 1 no . Please ref Annexure - E	per box						
	a) 12 mm thick Comm1 Plywood - MR Grade IS:303 [ref clause 6.1 of plant std ED 0490092]	per box	300					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
						Breakup of Basic unit rate for 2012-14		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	b) 12 mm thick Comml Plywood - BWR Grade IS : 303 [ref clause 6.1 of plant std ED 0490092]	per box	50					
	c) 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	per box	50					
11	Packing of HVDC Thyristor Modules using following Plywood box having internal size of 1256 x 874 x 398 mm with ply wood pallet and EPP [Expanded Polypropylene] foam fitments, Humidity indicator, special Dessicant, 200 microns polythene cover and other items as per ABB drawing 1JNL 100107-593. Total 12 types EP foam fitments of different sizes and qty are reqd. Out of 12 types, 9 types are as per ABB drg and other 3 are of following sizes: a) 1256 x 874 x 50 mm thick - 1 no , b) 600 x 275 x 65 mm - 1 no and [c] 600 x 275 x 80 mm - 1 no	per box						
	a) with 12 mm thick Comml Plywood - MR Grade IS:303 [ref clause 6.1 of plant std ED 0490092]	per box	300					
	b) with 12 mm thick Comml Plywood - BWR Grade IS : 303 [ref clause 6.1 of plant std ED 0490092]	per box	25					
	c) with 12 mm thick Plywood - Marine Grade IS : 710 [clause 6.2 of plant std Ed 0490092]	per box	25					

PART – II B		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid		
B] Schedule of Rates for packing of Control Eqpt. products using Plywood of MR grade, BWP grade, Marine Grade . Please refer to plant standard No.ED 049 00 92 and ABB drawing for HVDC special packing [Annexure - E].								
					Breakup of Basic unit rate for 2012-14			
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
12	Packing of HVDC Thyristor Modules using special pine Plywood box having internal size 1256 x 874 x 398 mm with ply wood / pine pallet and with out EPE / EPP foam fitments, with Humidity indicator, special Dessicant, 200 microns polythene cover and other items as per ABB drawing 1JNL 100107-593 [Special EPP / EPE will be BHEL scope]	per box	100					
SUB - Total of Part - II B								
Note :								
1. Please give your lowest offer covering the following:								
a. Basic unit rate [Material and Labour]								
b. Applicable taxes and duties with reference to cenvat claim / benefit								

Part - II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013		Price Bid		
Schedule of Rates for Packing of PV Modules in Cartons												
SI No	Type of Packing				unit	Estimated for Two years	Estimated for Two years	Breakup of Basic unit rate for 2012-14				
						Total Quantity of Modules	qty of cartons	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	2012-14	2012-14	2012-14									
1.1	Module Type	L1240 (12V,40W)			Per Carton	1000	200					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	553*663*38.5	5	PS-439-200	PS-439-031								
	Packing of 40 Watts PV Modules											
	(5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 600 x305 x 725 mm with 6 Nos. Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
	applicable Spec. Nos.:											
	CD-4-4007-011											
1.2	Module Type	L1240 (12V,40W)			Per Carton	200	200					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	553*663*38.5	1	PS-439-203	PS-439-196								
	Packing of 40 Watts PV Modules											
	(1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 600 x 305 x 725 mm with 6 Nos. Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
	applicable Spec. Nos.											
	CD-4-4007-011											

Part - II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid			
Schedule of Rates for Packing of PV Modules in Cartons											
SI No	Type of Packing			unit	Estimated for Two years	Estimated for Two years	Breakup of Basic unit rate for 2012-14				
					Total Quantity of Modules	qty of cartons	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	2012-14	2012-14	2012-14								
1.3	Module Type	L1240-S (12V,40W)		Per Carton	2000	400					
	Module Size[mm]	qty	Spec for carton								Spec for EP foam fitments
	678*528*38.5	5	PS-439-039								PS-439-031
	Packing of 40 Watts PV Modules (5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size 725 x 305 x 590 mm with 6 Nos. Foam fitments, individual Polythene Sheet Cover 700 Gauge for modules, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
	CD-4-4007-011										
1.4	Module Type	L1240-S (12V,40W)		Per Carton	200	200					
	Module Size[mm]	qty	Spec for carton								Spec for EP foam fitments
	678*528*38.5	1	PS-439-204								PS-439-196
	Packing of 40 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 725 x 305 x 590 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
	applicable Spec.Nos. CD-4-4007-011										
1.5	Module Type	L1260 (12V,60W)		Per Carton	500	100					
	Module Size[mm]	qty	Spec for carton								Spec for EP foam fitments
	793*663*38.5	5	PS-439-201								PS-439-031
	Packing of 60 Watts PV Modules (5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 840 x 305 x 725 mm with 6 nos EP Foam fitments individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
	applicable Spec. Nos. : CD-4-4007-011										

Part – II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013	Price Bid			
Schedule of Rates for Packing of PV Modules in Cartons												
SI No	Type of Packing				unit	Estimated for Two years	Estimated for Two years	Breakup of Basic unit rate for 2012-14				
						Total Quantity of Modules	qty of cartons	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	2012-14	2012-14	2012-14									
1.6	Module Type	L1260 (12V,60W)			Per Carton	400	400					
	Module Size[mm]		Spec for carton	Spec for EP foam fitments								
	qty	1	PS-439-205	PS-439-196								
	793*663*38.5											
	Packing of 60 Watts PV Modules											
	(1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 840 x 85 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
	applicable Spec. Nos.:											
	CD-4-4007-011											
1.7	Module Type	L1280 (12V,80W)			Per Carton	1000	200					
	Module Size[mm]		Spec for carton	Spec for EP foam fitments								
	qty	5	PS-439-202	PS-438-681								
	1023*663*38.5											
	Packing of 80 Watts PV Modules											
	(5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1070 x 305 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
	applicable Spec. Nos.:											
	CD-4-4007-011											

Part – II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013	Price Bid			
Schedule of Rates for Packing of PV Modules in Cartons												
SI No	Type of Packing				unit	Estimated for Two years	Estimated for Two years	Breakup of Basic unit rate for 2012-14				
						Total Quantity of Modules	qty of cartons	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	2012-14	2012-14	2012-14									
1.8	Module Type	L1280 (12V,80W)			Per Carton	100	100					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	1023*663*38.5	1	PS-439-206	PS-439-197								
	Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1070 x 85 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
	applicable Spec. Nos. : CD-4-4007-011											
1.9	Module Type	L1280-S (12V,80W)			Per Carton	1000	200					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	1203*528*38.5	5	PS-438-682	PS-438-681								
	Packing of 80 Watts PV Modules (5 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1250 x 305 x 590 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
	applicable Spec. Nos. : CD-4-4007-011											

Part – II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013		Price Bid		
Schedule of Rates for Packing of PV Modules in Cartons												
SI No	Type of Packing				unit	Estimated for Two years	Estimated for Two years	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Breakup of Basic unit rate for 2012-14		
						Total Quantity of Modules	qty of cartons			Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	2012-14	2012-14	2012-14									
1.10	Module Type L1280-S (12V,80W)				Per Carton	100	100					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	1203*528*38.5	1	PS-439-207	PS-439-197								
	Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1250 x 85 x 590 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
applicable Spec. Nos.:												
CD-4-4007-011												
1.11	Module Type L12130 (12V,130W)				Per Carton	1000	400					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	1495*665*50	2	PS-439-212	PS-439-028								
	Packing of 130 Watts PV Modules (2 in 1) in 5 Ply 250 GSM Corrugated Carton with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
applicable Spec. Nos.:												
CD-4-4007-011												
1.12	Module Type L12130 (12V,130W)				Per Carton	100	100					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	1495*665*50	1	PS-439-208	PS-439-198								
	Packing of 130 Watts PV Modules (1 in 1) in 5 Ply 250 GSM Corrugated Carton of internal size of 1540 x 95 x 725 mm with 6 nos EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
applicable Spec. Nos.:												
CD-4-4007-011												

Part - II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013		Price Bid		
Schedule of Rates for Packing of PV Modules in Cartons												
SI No	Type of Packing				unit	Estimated for Two years	Estimated for Two years	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
						Total Quantity of Modules	qty of cartons					
	2012-14	2012-14	2012-14									
1.13	Module Type	L24170 (24V,170W)			Per Carton	64000	1500					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fittings								
	1309*789*50	16	3-679-02-00323	NIL								
Packing of 170 Watts PV Modules (16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 1615 x 875 x 820 mm with plywood pallet of size 1615 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos												
applicable Spec. Nos.:												
CD-4-4007-013												
1.14	Module Type	L24170 (24V,170W)			Per Carton	1000	500					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fittings								
	1594*789*50	2	PS-439-027	PS-439-028								
Packing of 170 Watts PV Modules (2 in 1) in 5 Ply 250 GSM Corrugated Carton of internal size of 1640 x 160 x 850 mm with 6 nos EP Foam fittings, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
applicable Spec. Nos.:												
CD-4-4007-011												
1.15	Module Type	L24170 (24V,170W)			Per Carton	100	100					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fittings								
	1309*789*50	1	PS-439-209	PS-439-198								
Packing of 80 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size of 1640 x 95 x 850 mm with 6 nos EP Foam fittings, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												

Part – II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013	Price Bid		
Schedule of Rates for Packing of PV Modules in Cartons											
SI No	Type of Packing				unit	Estimated for Two years	Estimated for Two years	Breakup of Basic unit rate for 2012-14			
						Total Quantity of Modules	qty of cartons	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]
	2012-14	2012-14	2012-14								
applicable Spec. Nos. : CD-4-4007-011											
1.16	Module Type	L20220 (20V,220W)			Per Carton	144000	2500				
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fittings							
	1655*995*50	16	3-679-02-00324	NIL							
Packing of 220 Watts PV Modules (16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 1675 x 875 x 1020 mm with plywood pallet of size 1675 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos											
applicable Spec. Nos.: CD-4-4007-013											
1.17	Module Type	L20220 (20V,220W)			Per Carton	1200	600				
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fittings							
	1655*995*50	2	PS-439-213	PS-439-215							
Packing of 220 Watts PV Modules (2 in One) in 7 Ply 250 GSM Corrugated Carton of internal size of 1700 x 160 x 1055 mm with 6 nos EP Foam fittings, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)											
applicable Spec. Nos.: CD-4-4007-011											

Part – II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ				Dtd : 28.01.2013		Price Bid		
Schedule of Rates for Packing of PV Modules in Cartons												
SI No	Type of Packing				unit	Estimated for Two years	Estimated for Two years	Breakup of Basic unit rate for 2012-14				
						Total Quantity of Modules	qty of cartons	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	2012-14	2012-14	2012-14									
1.18	Module Type	L20220 (20V,220W)			Per Carton	200	200					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	1655*995*50	1	PS-439-210	PS-439-119								
Packing of 220 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size 1700 x 95 x 1055 mm with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)												
applicable Spec. Nos. : CD-4-4007-011												
1.19	Module Type	L24270 (24V,270W)			Per Carton	2400	150					
	Module Size[mm]	qty	Spec for carton	Spec for EP foam fitments								
	1975*995*50	16	3-679-02-00343	NIL								
Packing of 270 Watts PV Modules (16 in One) in 7 Ply 2000 GSM Heavy Duty Corrugated Carton of internal size 2000 x 875 x 1020 mm with plywood pallet of size 2000 x 875 mm , Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost). Paper combination for Sleeve is 489/200/180/200/180/200/489 - 7 ply and for Top cover - 5 ply -> 300/180/200/180/200 gsm, corner caps for module of size 150 x 150x1.5 mm thick - 64 nos												
applicable Spec. Nos. : CD-4-4007-013												

Part - II - C				Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid			
Schedule of Rates for Packing of PV Modules in Cartons											
SI No	Type of Packing			unit	Estimated for Two years	Estimated for Two years	Breakup of Basic unit rate for 2012-14				
					Total Quantity of Modules	qty of cartons	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
	2012-14	2012-14	2012-14								
1.20	Module Type	L24270 (20V,220W)		Per Carton	300	150					
	Module Size[mm]	Qty	Spec for carton								Spec for EP foam fitments
	1975*995*50	2	PS-439-214								PS-439-215
	Packing of 270 Watts PV Modules (2 in One) in 7 Ply 250 GSM Corrugated Carton of internal size 2020 x 160 x 1055 mm with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
	applicable Spec. Nos. : CD-4-4007-011										
1.21	Module Type	L24220 (24V,220W)		Per Carton	100	100					
	Module Size[mm]	qty	Spec for carton								Spec for EP foam fitments
	1975*995*50	1	PS-439-211								PS-439-199
	Packing of 270 Watts PV Modules (1 in One) in 5 Ply 250 GSM Corrugated Carton of internal size 2020 x 95 x 1055mm with EP Foam fitments, individual Polythene Sheet Cover 700 Gauge, BOPP Adhesive Tape, Additional outer polythene cover for carton, PVC Straps, marking (inclusive of Labour Charges + all Materials Cost)										
	applicable Spec. Nos. : CD-4-4007-011										
1.22	Labour charges for unpacking / Repacking of pv module cartons. All packing materials will be provided by BHEL.			per carton		1000					
Sub-Total for Part - II C											
Note :											
1. Please give your lowest offer covering the following:											
a. Basic unit rate [Material and Labour]											
b. For PV packing, Cenvat credit is not allowed.											

PART – II [D]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013		Price Bid	
SCHEDULE OF RATES FOR PACKING OF MATERIALS USING HEAVY DUTY CORRUGATED KRAFT PAPER CARTON								
Breakup of Basic unit rate for 2012-14								
Sl No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 [qty * unit rate]	Material [x]	Packing Service charges [y]	Applicable Taxes, Duties, Service Tax and CST / Vat %
1	Packing of panels using heavy duty corrugated box as per pkg specifications outlined at Part – I D with all other packing materials such as polythene sheet 700g, silicagel, coir, edge board, plywood, pvc strappings, markings and stickers/labels.	Per Sq. Mtr	2,000					
2	Packing of loose items,spares and similar items using heavy duty corrugated box as per pkg specifications outlined at Part – I D with all other packing materials such as polythene sheet 700g, silicagel, coir, edge board, rotolock, document pouch, plywood, pvc strappings, markings and stickers / labels. Pallet made out of Plywood / Timber if used on need basis will be paid extra .	Per Sq. Mtr	1,000					
Sub-Total for Part - II 'D'								

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid	
Schedule of Rates for packing consumables to be supplied by the contractor							
Part II- E							
						Breakup of Basic unit rate for 2012-14	
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material]	Total value for 2012-14 [qty * unit rate]	Material supply only	Applicable Taxes, Duties, CST / Vat % [Service Tax is not applicable]
1	Silicagel	Kgs.	1000				
2	Polythene Sheet (175 Micron)	Kgs.	1000				
3	Polythene Sheet (200 Micron)	Kgs.	1000				
4	Iron Clamps	Each	1300				
5	Hoop Iron (0.6 mm Thick)	Kgs.	650				
6	Rubberised Coir	Kgs.	1300				
7	Tarfelt	Square Mtrs.	1300				
8	Nails (2" and 2 – ½")	Kgs.	650				

Part – II [E]			Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013		Price Bid	
Schedule of Rates for packing consumables to be supplied by the contractor									
Part II- E									
Breakup of Basic unit rate for 2012-14									
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material]	Total value for 2012-14 [qty * unit rate]	Material supply only		Applicable Taxes, Duties, CST / Vat % [Service Tax is not applicable]	
9	Packing Note Holder	Each	1300						
10	Name Plate	Each	1300						
11	Rubber Wood	Cu mtrs	50						
12	Bituminised Water Proof Kraft Paper	Square Metres	650						
13	Plywood of a) 6 mm thk MR Grade	Sq mtrs	1000						
	b) 12 mm thick of MR Grade	Sq mtrs	1000						
14	Labour Charges for providing GI Sheet Covering the cases.	Square Metres	10000						
15	Labour Charges for packing of items is cartons . Cartons supplied by BHEL . [Only Labour charges]	per carton / box	1300						

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid	
Schedule of Rates for packing consumables to be supplied by the contractor							
Part II- E							
						Breakup of Basic unit rate for 2012-14	
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material]	Total value for 2012-14 [qty * unit rate]	Material supply only	Applicable Taxes, Duties, CST / Vat % [Service Tax is not applicable]
	Labour Charges for unpacking / Re-packing of cases	Per case					
16	a) Cubicles		1300				
	b) Small Cases		1300				
17	Air Bubble Roll of 1.5 m wide x 100 mtrs long or equivalent qty having Dia of air bubble :9.5 mm or more and 450 Gauge.	Roll	200				
18	2 Ply corrugated paper roll [Non vergin] of 100 GSM size : 1 m x 100 m long	roll	200				
19	EP foam sheets of size : 1000 mm x 500 mm x 50 mm thick with normal density	no	2000				
20	Expanded Polyethylene foam packing box for LEG Module Packing as per drawing 3-688-04-10022 ver 02	no	400				
21	Expanded Polyethylene foam packing box for Thyristor Module packing as per drawing 1-699-22-50084 rev 00	no	250				

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid	
Schedule of Rates for packing consumables to be supplied by the contractor							
Part II- E							
						Breakup of Basic unit rate for 2012-14	
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material]	Total value for 2012-14 [qty * unit rate]	Material supply only	Applicable Taxes, Duties, CST / Vat % [Service Tax is not applicable]
22	Expanded Polyethylene foam Corner Block as per drawing having size : 250 x 250 x 200 mm with wall thickness of 50 mm	no	2000				
23	Sun Pac cartons of different sizes having sheet thickness of 5 mm with suitable side locking system and side handling system as per drawing ' sun pac carton '	no					
	a] 520 x 300 x 350 mm	no	1000				
	b] 600 x 600 x 400 mm	no	1000				
	c] 300 x 300 x 200 mm	no	1000				
	d] 600 x 300 x 300 mm	no	1000				
	e] 350 x 350 x 300 mm	no	1000				
	f] Sun Pac sheets of 4 mm thick having size : 2.00 metres long x 1.3 metres wide x 4 mm thk	no	400				

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013	Price Bid	
Schedule of Rates for packing consumables to be supplied by the contractor							
Part II- E							
Breakup of Basic unit rate for 2012-14							
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material]	Total value for 2012-14 [qty * unit rate]	Material supply only	Applicable Taxes, Duties, CST / Vat % [Service Tax is not applicable]
24	Sun Pac cartons of different sizes having sheet thickness of 5 mm with suitable side locking system and side handling system as per drawing ' sun pac carton '	sq metres of carton	400				
25	Thermocole sheets size : 1m x 0.5 metre width x 15 mm thick of normal density	no	6000				
26	Nails suitable for speedpost parcels size : 14 G x 1.25 inch long	Kgs.	2000				
27	GUM - utility Brand suitable for speed post parcel packing , qty : 700 ml bottle	no	500				
28	BOPP Gum Tapes [self adhesive] Size: 2" x 65 metre long roll heavy Guage	roll	1000				
29	BOPP Gum Tapes [self adhesive] Size: 3" x 65 metre long roll heavy Guage	roll	1000				

Part – II [E]		Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ			Dtd : 28.01.2013		Price Bid	
Schedule of Rates for packing consumables to be supplied by the contractor								
Part II- E								
						Breakup of Basic unit rate for 2012-14		
SI No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material]	Total value for 2012-14 [qty * unit rate]	Material supply only		Applicable Taxes, Duties, CST / Vat % [Service Tax is not applicable]
30	Supply of GI sheets having thick ness 0.3 mm plus 0.01 and minus 0.05	Kgs.	20000					
31	Supply EPE [Expanded PolyEthylene foam fitments] high density meant for HVDC Packing as per ABB Drawing 1JNL 100107-593 . Total 12 types . 9 types with different qty as per ABB drg and 1no full sheet of EPE foam shhet of 50 mm thick of size : 1256 x 874 mm Normal Density and 2 more EP foam fitments of size a) 600 x 275 x 65 mm - 1 no [b] 600 x 275 x 80 mm - 1 no	set	600					
32	Bag with Dessicant , Size : 200 x 130 x 30 mm minimum having 250 grams Dessicant packet .	no	8000					
33	Supply of Aluminium foil cover with sealing of standard gauge in different sizes.	square meter of aluminium foil cover	500					
Sub-Total for Part - II - 'E'								

Part – II [F]

Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ

Price Bid

Dtd : 28.01.2013

Schedule of Rates for packing of panels and other items using GI sheet

Sl No	Type of Packing	Unit	Estimated Qty for 2012-14	Basic Unit rate for 2012-14 [Material and Packing service charges] [x + y]	Total value for 2012-14 qty * unit rate]	Breakup of Basic unit rate for 2012-14		Applicable Taxes, Duties, Service Tax and CST / Vat %
						Material [x]	Packing Service charges [y]	
1	Packing of panels with Galvanised Iron Sheet of Thickness 0.3 mm +/- 0.05 with suitable Nails & Wooden batten for covering packed cases (including Labour Charges)	Square Metres	30000					
Sub-Total for Part - II - 'F'								

Tender Enquiry No. BHEL:EDN:SHP:PKG:2012-14:ENQ

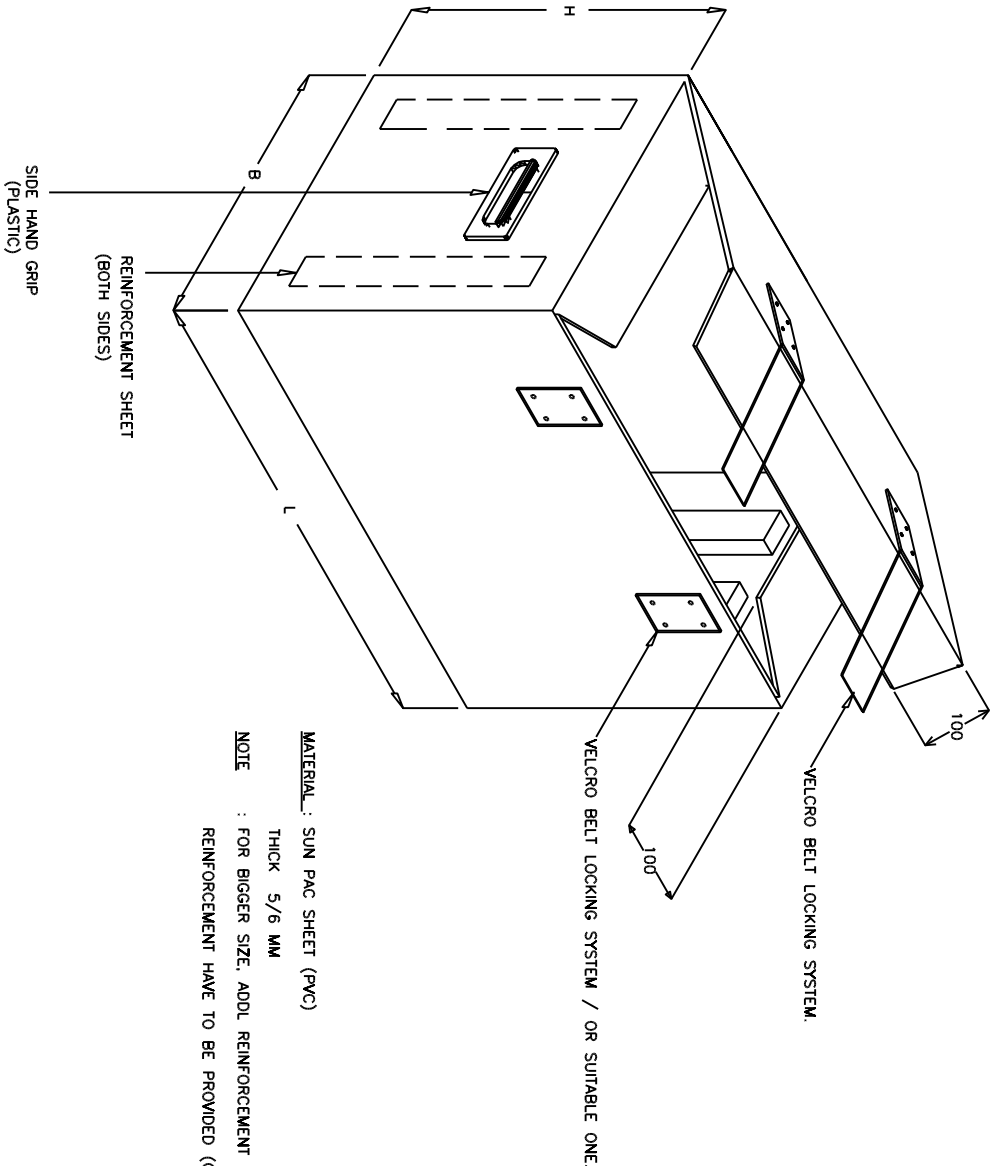
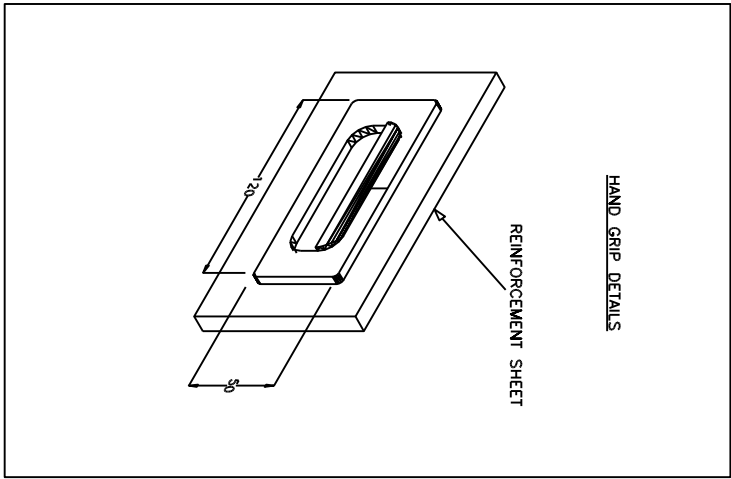
Price Bid

	Total Quoted value	
Part - II 'A'		
Part - II B		
Part - II C		
Part - II D		
Part - II E		
Part - II F		
Total		

Signature and seal of the Vendor

PACKING CONTRACT -											
Order will indicate details separately FOR MATERIAL & PACKING CHARGES AGAINST EACH ITEM											
COST TO BHEL - CALCULATIONS AS GIVEN BELOW											
		PART II-A, PART II-B, PART II-D & PART II-E & F ie With CENVAT						PART II-C ie Without CENVAT			
		WITHIN KARNATAKA			OUTSIDE KARNATAKA			WITHIN KARNATAKA		OUTSIDE KARNATAKA	
		WITH EXCISE DUTY	WITHOUT EXCISE DUTY	WITH EXCISE DUTY	WITHOUT EXCISE DUTY	WITH EXCISE DUTY	WITHOUT EXCISE DUTY	WITH EXCISE DUTY	WITHOUT EXCISE DUTY	WITH EXCISE DUTY	WITHOUT EXCISE DUTY
SAY QUOTE-PACKING MATERIAL	[A]	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
SAY QUOTE-PACKING CHARGES	[B]	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ADD											
ED ON A	12.36% 0.00%	8.65	0.00	8.65	0.00	8.65	0.00	8.65	0.00	8.65	0.00
KVAT ON [A+ ED on A]	5.50%	4.33	3.85	4.33	3.85	4.33	3.85	4.33	3.85	4.33	3.85
CST ON [A + ED on A]	2.00%	1.57	1.40	1.57	1.40	1.57	1.40	1.57	1.40	1.57	1.40
SERVICE TAX ON B	12.36%	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71
		16.69	7.56	13.93	5.11	16.69	7.56	13.93	5.11	13.93	5.11
LESS											
CENVAT OF ED		8.65	0.00	8.65	0.00	8.65	0.00	8.65	0.00	8.65	0.00
CENVAT ON SERVICE TAX		3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71
KVAT CREDIT		4.33	3.85	4.33	3.85	4.33	3.85	4.33	3.85	4.33	3.85
		16.69	7.56	12.36	3.71	16.69	7.56	12.36	3.71	12.36	3.71
COST TO BHEL		100.00	100.00	101.57	101.40	112.36	103.71	113.93	105.11	113.93	105.11

ALL DIMENSION ARE IN 'MM' (INTERNAL SIZE ONLY)



MATERIAL : SUN PAC SHEET (PVC)

THICK 5/6 MM

NOTE : FOR BIGGER SIZE, ADDL REINFORCEMENT SHEET / ANGLE REINFORCEMENT HAVE TO BE PROVIDED (OPTIONAL.)

REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED
		APPROVED			APPROVED

NAME	SIGN	DATE
DRAVN VITTAL		05.03.10
CHECKED NATRAJ		05.03.10
APPROVED NATRAJ		05.03.10

DISTRIBUION OF PRINTS	DEPT.	CODE

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

SUN PAC CARTON

M.D. No. 805-CARTON-001 AS PER OPEN TOLERANCE DRG. No. TD ED 0230499

CARD CODE	No. OF SHEETS	REV

INVENTORY No.	SIGN. & DATE	REF. DRG. No.
G	F	E
1	2	3
4		



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**PRODUCT STANDARD
ELECTRONICS DIVISION**

CD-4-4007-011

REV. 07

PAGE 01 OF 02

Instructions for Packing of PV Modules

Various types of Photovoltaic Modules shall be packed for despatch to customers as per the following instructions. The specifications for carton box & EP foam fitments for various configurations are as per page 2 of 2.

**For L1240, L1240S, L1260, L1280, L1280S, L12130,
L24170, L20220 & L24270 PV modules**

1. Place each PV module in a Polythene cover and seal the edges.
2. Place two nos. of L shaped E.P. foam fitment in the bottom corners of carton box and one no. E shaped E.P. foam fitment in the bottom middle of carton box. Position required no. of PV modules in the slots of foam fitments. Fix two nos. of L shaped E.P. foam fitment in the top corners of carton box and one E shaped E.P. foam fitment in the top middle of carton box with each module positioned in the respective slots.
3. Put a packing list slip (sealed / covered in a polythene cover) inside the carton box and paste one more packing list slip on the carton box.
4. Write the packing list number & module sl. nos. clearly on the carton.
5. Close the carton flaps with a bopp tape (2 inch width) at three places in both top and bottom.
6. Place the packed carton box inside a polythene cover.
7. Heat seal the polythene cover openings.
8. Wrap the carton box along with polythene cover tightly with a plastic bale patti (1/2 inch width) at three places.
9. Stack and store the carton boxes in a safe place.

For L1210 PV modules

1. Place each PV module in a Polythene cover and seal the edges.
2. Place two nos. of L shaped E.P. foam fitment in the bottom corners of carton box. Position required no. of PV modules in the respective slots of foam fitments. Fix two nos. of L shaped E.P. foam fitment in the top corners of carton box with each module positioned in the respective slots.
3. Put a packing list slip (sealed / covered in a polythene cover) inside the carton box and paste one more packing list slip on the carton box.
4. Write the packing list number & module sl. nos. clearly on the carton.
5. Close the carton flops with a bopp tape at the bottom and top at two places. Wrap the carton box tightly with a bale patti at two places.
6. Stack and store the carton boxes in a safe place.

Plywood box packing in special cases (as required by commercial) :

Pack the carton boxes further in ply wood boxes. Plywood is as per IS 303 – BWR / BWP grade (MR grade). Other packing instructions as per plant standard ED0490092. Gaps to be filled with rubberised coir or thermocole or any other cushioning material.

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REVISION: (07)
PV Module L24170 dimension revised.

APPROVED BY:

SR

PREPARED

SM

ISSUED

Engg.

DATE

20.12.2010



**PRODUCT STANDARD
ELECTRONICS DIVISION**

CD-4-4007-011

REV. 07

PAGE 02 OF 02

Various types of Packing Specifications

Sl. No.	PV module type	Module dimension (mm)	No. of modules per packing	Spec. for carton box	Spec. for E.P. foam fitment
1.	L1210 (12V,10W)	464*285*22	5	PS-439-046	PS-439-035
2.	L1210 (12V,10W)	464*285*22	10	PS-438-689	PS-438-688
3.	L1240 (12V,40W)	553*663*38.5	5	PS-439-200	PS-439-031
4.	L1240 (12V,40W)	553*663*38.5	1	PS-439-203	PS-439-196
5.	L1240S (12V,40W)	678*528*38.5	5	PS-439-039	PS-439-031
6.	L1240S (12V,40W)	678*528*38.5	1	PS-439-204	PS-439-196
7.	L1260 (12V,60W)	793*663*38.5	5	PS-439-201	PS-439-031
8.	L1260 (12V,60W)	793*663*38.5	1	PS-439-205	PS-439-196
9.	L1280 (12V,80W)	1023*663*38.5	5	PS-439-202	PS-438-681
10.	L1280 (12V,80W)	1023*663*38.5	1	PS-439-206	PS-439-197
11.	L1280S (12V,80W)	1203*528*38.5	5	PS-438-682	PS-438-681
12.	L1280S (12V,80W)	1203*528*38.5	1	PS-439-207	PS-439-197
13.	L12130 (12V,130W)	1495*665*50	2	PS-439-212	PS-439-028
14.	L12130 (12V,130W)	1495*665*50	1	PS-439-208	PS-439-198
15.	L24170 (24V,170W)	1605*805*50	2	PS-439-027	PS-439-028
16.	L24170 (24V,170W)	1605*805*50	1	PS-439-209	PS-439-198
17.	L20220 (20V,220W)	1655*995*50	2	PS-439-213	PS-439-215
18.	L20220 (20V,220W)	1655*995*50	1	PS-439-210	PS-439-199
19.	L24270 (24V,270W)	1975*995*50	2	PS-439-214	PS-439-215
20.	L24270 (24V,270W)	1975*995*50	1	PS-439-211	PS-439-199

Responsibility :

Packing : By Shipping department.

Verification : QS (Despatch)

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**PRODUCT STANDARD
ELECTRONICS DIVISION****CD-4-4007-013**

REV. 03

PAGE 01 OF 01

**Instructions for Packing of large size PV Modules
(L24170, L20220 and L24270)**

Large Size Photovoltaic Modules (L24170, L20220 and L24270 PV modules) shall be packed for despatch to customers as per the following instructions.

1. Make Corrugated Box with bottom flap [Box and flap are to be made from same corrugated sheet as shown in drawings] and Screw the carton box on to the wooden pallet at four corners and at the middle of length and width of pallet (total eight screws) without damaging the PV Modules.
2. Place corner caps suitable to match frame profile at the four corners of the PV module.
3. Place 16 nos. of PV Modules with corner caps inside the box.
4. Put a packing list slip (sealed / covered in a polythene cover) inside the carton box and paste one more packing list slip on the carton box.
5. Write the packing list number clearly on the carton.
6. Close the carton with the top cover.
7. Fix a self adhesive desired colour sticker of size 100*100 mm one side of the sleeve.
8. Wrap the carton box tightly along with wooden pallet with bale patti at three places
9. Wrap the carton box with a polyethylene stretch wrap (30 micron) all round for protecting against rain.
10. Stack and store the packed boxes in a safe place.

The dimensions and specifications for sleeve carton box, wooden pallet and corner caps are as per the drawing indicated as below.

Sl. No.	PV module type	Module dimension (mm)	No. of modules per packing	Drawing No.
1.	L24170	1605*805*50	16	3-679-02-00323
2.	L20220	1655*995*50	16	3-679-02-00324
3.	L24270	1975*995*50	16	3-679-02-00343

Responsibility :

Packing : By Shipping department.

Verification : QS (Despatch)

REVISION : (03)
Stretch wrap thickness revised to 30 microns

APPROVED BY :
SR

PREPARED

SM

ISSUED

Engg.

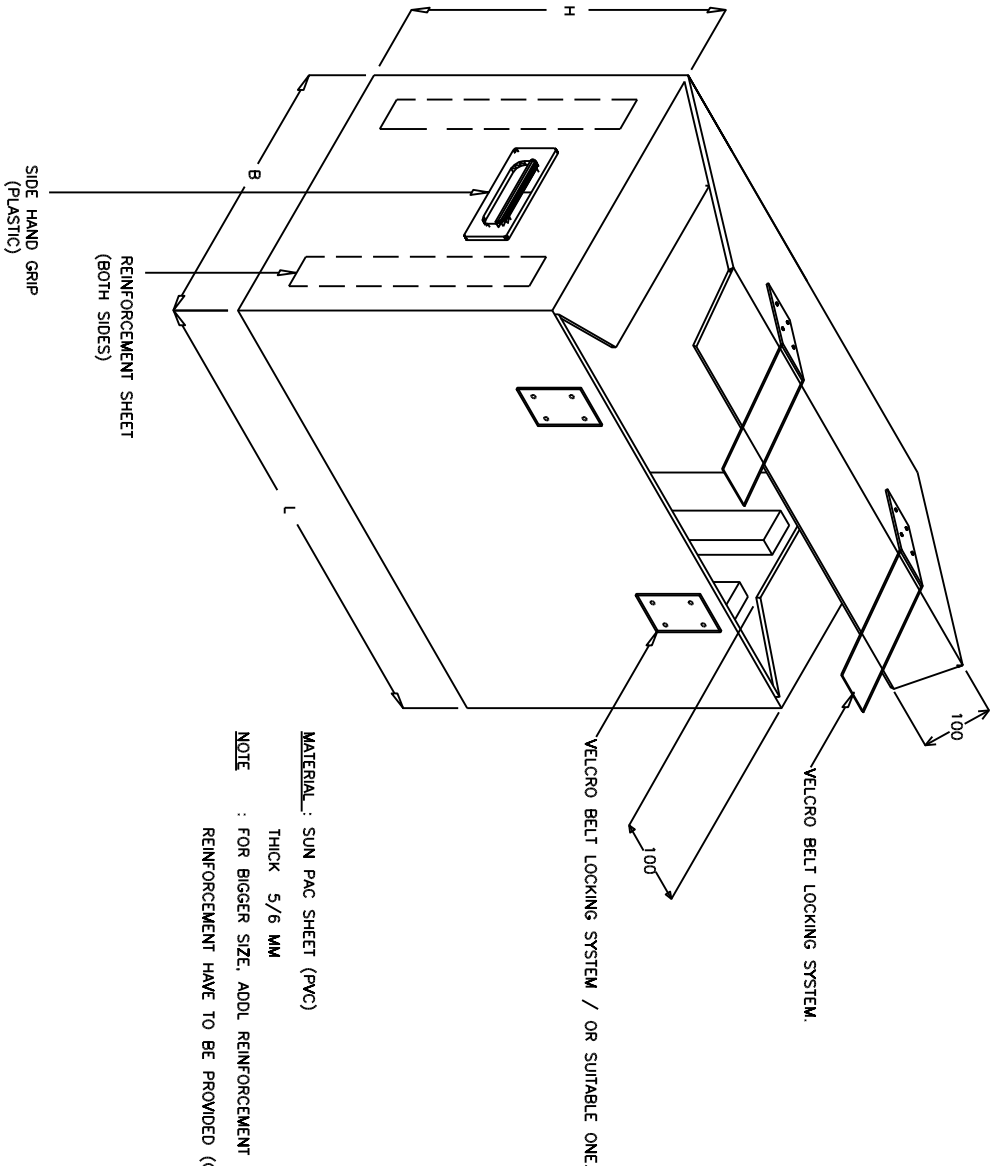
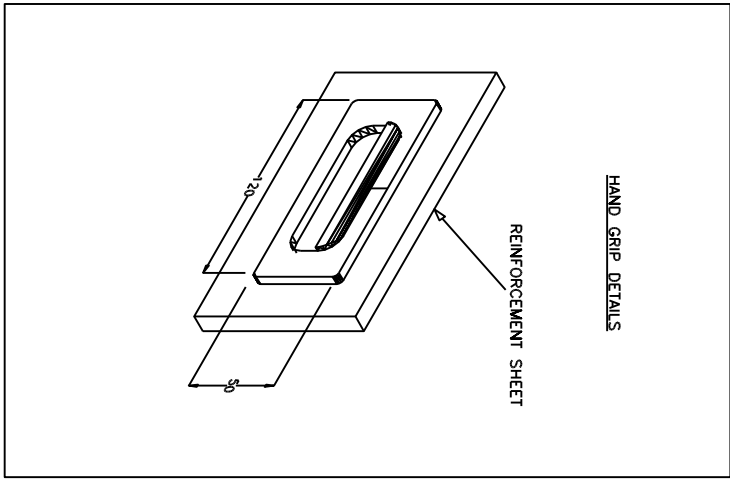
DATE

4.2.2011

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ALL DIMENSION ARE IN 'MM' (INTERNAL SIZE ONLY)



MATERIAL : SUN PAC SHEET (PVC)

THICK 5/6 MM

NOTE : FOR BIGGER SIZE, ADDL REINFORCEMENT SHEET / ANGLE REINFORCEMENT HAVE TO BE PROVIDED (OPTIONAL.)

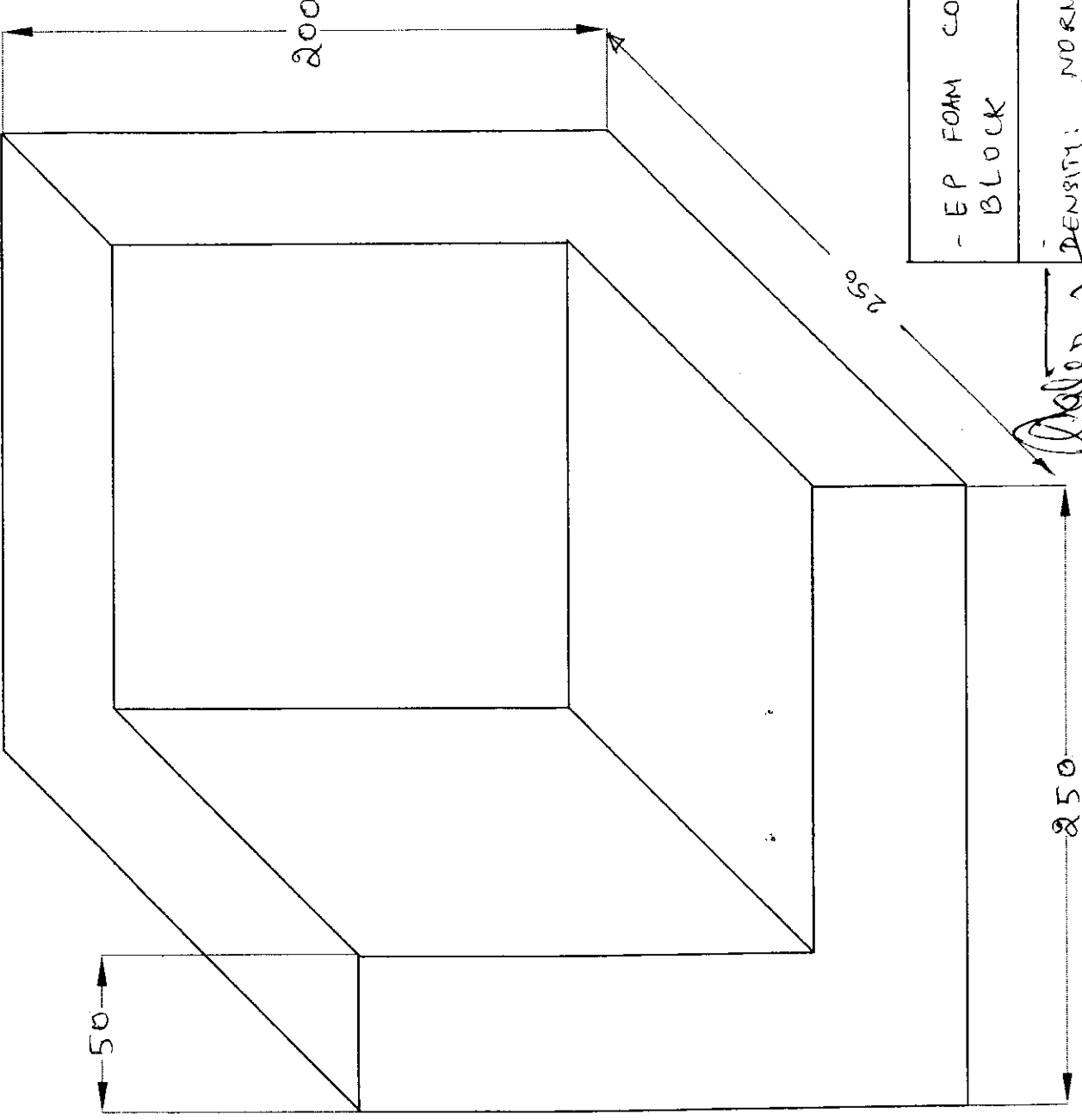
REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED
		APPROVED			APPROVED

NAME	SIGN	DATE
DRAVN VITTAL		05.03.10
CHECKED NATRAJ		05.03.10
APPROVED NATRAJ		05.03.10

DEPT.	CODE

<p>BHARAT HEAVY ELECTRICALS LIMITED. ELECTRONICS DIVISION, BANGALORE</p>	
<p>SUN PAC CARTON</p>	
M.D. No.	805-CARTON-001
AS PER OPEN TOLERANCE	DRG. No.
TD ED 0230499	
NO. OF SHEETS	CARD CODE
REV	

INVENTORY No.	SIGN. & DATE	REF. DRG. No.
G	F	E
1	2	3
4		



- EP FOAM CORNER
BLOCK

DENSITY: NORMAL
HEAT SEALED.

Dalvi

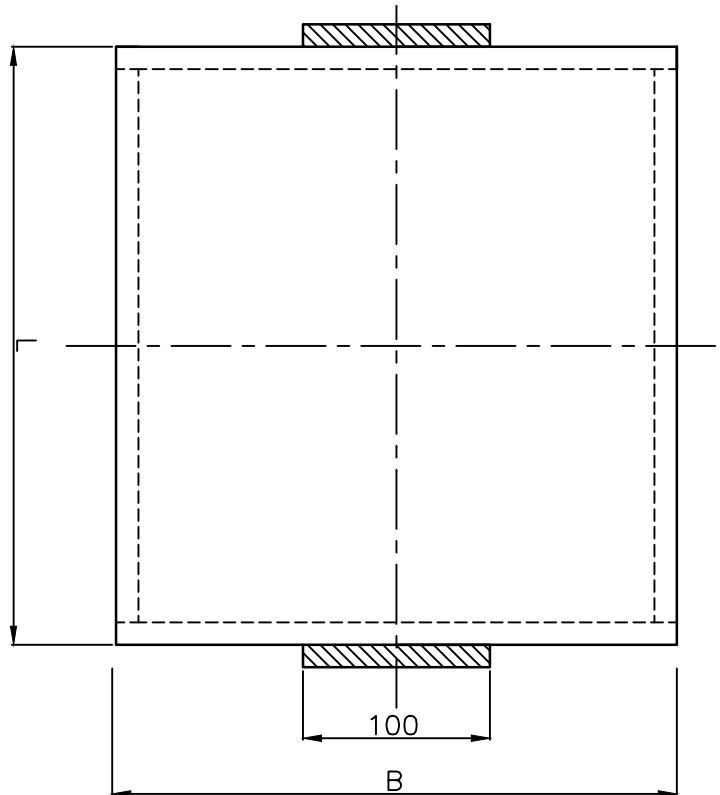
ಕೆ.ಪಿ. ನಟರಾಜ್, ಮ್ಯಾನೇಜರ್ / ಶಿಪಿಂಗ್
ಕೆ.ಪಿ. ನಟರಾಜ್, ಮ್ಯಾನೇಜರ್ / ಶಿಪಿಂಗ್
K.P. NATARAJ, MANAGER / SHIPPING
BHEL, EDN, MYSORE ROAD, BANGALORE - 560 056

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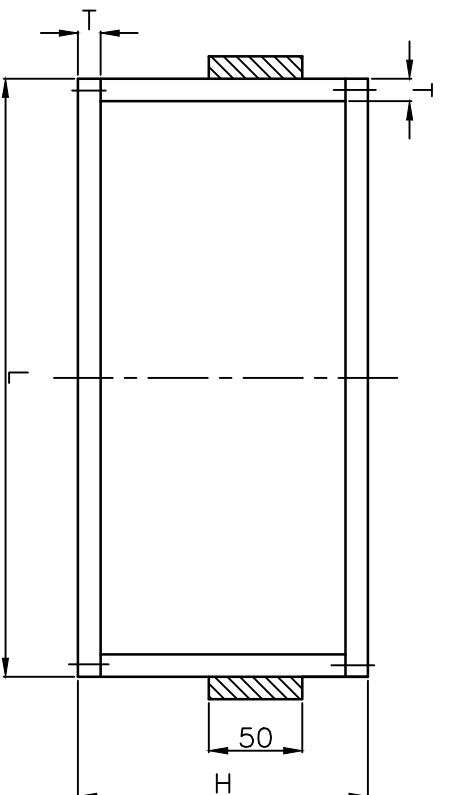
DRAWING NO. 805 RPP BOX

FIRST ANGLE PROJECTION

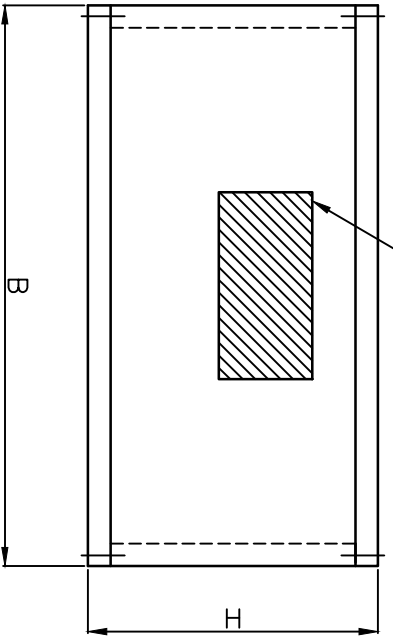
ALL DIMENSIONS ARE IN mm



BOTTOM VIEW



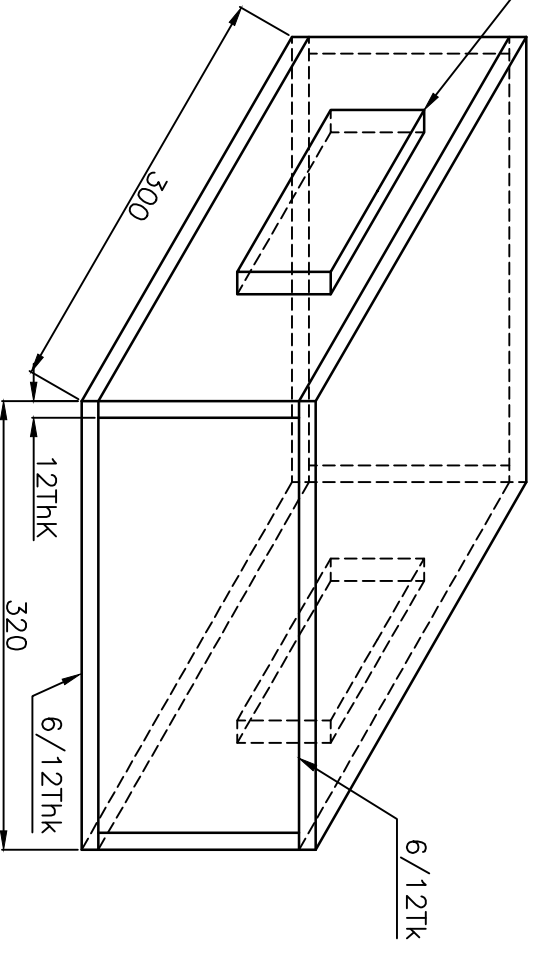
FRONT VIEW



SIDE VIEW

ITEM NO	DIMENSIONS				SIDE PLY THK	TOP & BOTTOM
	L	B	H	TK		
01	320	300	167	12TK	12	12
02	320	300	167	12/6	12	6
03	400	400	200	12/6	12	12
04	500	400	300	12/6	12	6

SUPPORT LOADING PIECE (PLYWOOD 12TK)



ISOMETRIC VIEW FOR REFERENCE ONLY NOT TO SCALE

NOTE:- 1. DEBURR THE SHARP EDGES.

2. PLYWOOD SHEET 12TK. ALL SIDES OR 12TK SHEET FOR SIDES AND 6MM TK CAN ALSO BE USED, FOR BOTH TOP & BOTTOM

3. SUITABLE NAILS TO BE USED. RECOMMENDED SIZE 14GX1 1/4 INCH LENGTH.

4. SUPPORT PIECE OF PLYWOOD SHEET SIZE :- 100x50x12TK 2No'S

TO BE PROVIDED FOR BIGGER BOXES FOR EASY HANDLING/ LIFTING.

5. ALL OTHER REQUIRED PACKING MATERIALS TO BE USED FOR PACKING.

6. STANDARD LABELINGS, MARKINGS, TO BE DONE, THE INCLUDING PVC STRAPPINGS

QTY. No.	ITEM No.	DESCRIPTION	DRAWING NO.	ITEM No.	MATERIAL CODE	UT.Wt. (kgs)
	01	PLYWOOD 12TK				

CARD TYPE 2

CARD TYPE 1

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT



BHARAT HEAVY ELECTRICALS LIMITED. ELECTRONICS DIVISION, BANGALORE

DRN	NAME	SIGN.	DATE	No. OF VAR
ABHILASH			18/06/10	
NAGARAJUK/KSP			18/06/10	
KGR			18/06/10	

DEPT. SAE	FOR UNSPECIFIED-TOLERANCES	SCALE	WEIGHT(Kg)	REF. TO ASSY. DRG.	ITEM NO.	No. OF ITEM
406	REFER ED 0230499	1:4				

TITLE	DRAWING NO.	REV.
PLYWOOD RPP BOX	805 RPP BOX 001	00

REV.	DATE	ALTERED	REV.	DATE	ALTERED
1		CHECKED			CHECKED
		APPROVED			APPROVED

INVENTORY NO.

SIGN & DATE

REF. DRG.NO.

FORM No. A3-01

A3 SIZE