

PANIPAT THERMAL POWER STATION

(A Unit Of Haryana Power Generation Corporation Ltd.) An ISO:9001,ISO:14001 and OHSAS:18001 Certified Company Assan - Panipat -132105 Tele Fax: 0180-2566015, Mobile:9355084885 E-mail: <u>xenmtcplg1@gmail.com</u>

NOTICE INVITING TENDER

Sealed two part tenders are invited in duplicate by CE/ PTPS-2, Panipat on behalf of HPGCL for the following works to be carried out during the Capital overhauling of 110MW, Unit-4, PTPS, Panipat : -

 Tender Enquiry No. Description of work 	 : 431/MP-430/TIT/13 : Spray & Thermal insulation works pertaining to TG area of 110 MW, Unit-4 PTPS, Panipat
3. Cost of tender	: Rs.1, 132/-(Non-refundable)
4. Earnest money	: Rs. 39,000 /-
5. Last date & time for issue of tender	: 21.08.2013 upto1600 Hours
6. Last date & time for submission of tenders	: 22.08.2013 up to 1300 hours
7. Due date & time for opening of tenders	: 22.08.2013 at 1600 hours

Note:-

- 1) Negotiations, if required would be held with L-I bidder only.
- 2) For other details visit web site <u>www.hpgcl.gov.in</u>

XEN/Mtc. Planning-I For Chief Engineer /PTPS-2 HPGCL, Panipat



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Regd. Office: C-7, Urja Bhawan, Sector-6, Panchkula

	NOTICE INVITING TENDER							
	NIT Number	Last date of submission of bids						
	431/MP-430/TIT/13	Spray & Thermal insulation works pertaining to TG area of 110 MW,Unit-4 PTPS, Panipat	22.08.2013					
Note: The details of above NIT along with Tender documents can be seen and downloaded from HPGCL website <u>www.hpgcl.gov.in</u>								
			Chief Engineer/PTPS-2					

	Tender Information						
Source (Name of Power station)	PANIPAT THERMAL POWER STATION, PANIPAT						
Classification	WORKS CONTRACT						
NIT Number	431/MP-430/TIT/13						
Brief NIT Description	Spray & Thermal Insulation works pertaining to TG Area of 110 MW, Unit-4, PTPS, Panipat.						
Tender Issue Date:	22.07.2013						
Document Sale Close Date	21.08.2013 up to 1600 hours						
Bid Submission Date	22.08.2013 up to 1300 hours						
Bid Opening Date	22.08.2013 at 1600 hours						
Contact Info	XEN/Mtc. Planning-I, PTPS, Panipat						
	Phone 9355084885						
NIT Details	Separate file in word is attached						
Corrigendum Detail	Not Applicable						
EMD Amount	39,000/-						
Tender Document Cost	1,132/-						



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Press Tender Enquiry No. 431 / MP-430/TIT/13 Opening due on 22.08.2013 EMD- Rs. 39,000/-

From

Chief Engineer/PTPS-2, HPGCL, Panipat.

То

M/s_____

Memo No.: Ch- 12 / MP/428/TI/13

Dated: 22.07.2013

Sub: Press Tender Enquiry No. 431 /MP-430/TIT/13 for Spray & Thermal insulation works pertaining to TG Area of 110MW, Unit-4, PTPS, Panipat. Dear Sir,

Enclosed please find herewith a set of tender enquiry of subject cited work, consisting of the following Annexure: -

1.	Details of Notice Inviting Tender	Annexure-I
2.	General Instructions	Annexure-II
3.	Technical Terms & Conditions	Annexure-III
4.	Scope of work	Annexure-IV
5.	Rate Quoting sheet	Annexure-V
6.	General Terms& Conditions	Annexure-VI
7.	Labour Laws	Annexure-VII
8.	Supervision/Quality control	Annexure-VIII

The same may please be gone thorough carefully before submission of tender. Deviations from terms and conditions, if any, should be specifically indicated by the Tenderer in their forwarding letter of **Part-I** offer, otherwise it should be confirmed that the firm agrees to all the terms & conditions of tender enquiry. Rate quoting sheet should be separately enclosed in a sealed envelope, super scribed as **Part-II** offer/Price bid.

Thanking you,

Yours faithfully,

DA/As above (15 Nos. Pages)

Xen/Mtc. Planning-I, For CE/ PTPS-2, HPGCL, Panipat

<u>Annexure-l</u>

DETAILS OF NOTICE INVITING TENDER

1. Sealed Tenders are invited in **Two Parts** on behalf of CE/PTPS-2, PTPS, HPGCL for the execution of following works during forthcoming Capital overhauling of 110 MW, Unit-4:-

"<u>SPRAY & THERMAL INSULATION WORKS PERTAINING TO TG AREA OF 110MW,</u> <u>UNIT-4, PTPS, PANIPAT."</u>

1. NITNO 431/ MP/430/TIT/13	DATED: 22.07.2013
2. TENDER COST	:- Rs.1,132/- (Non Refundable)
EARNEST MONEY	:- Rs.39,000/-
3. LAST DATE AND TIME FOR ISSUE OF TENDER DOCUMENTS	:- 21.08.2013upto1600 hours
4. LAST DATE AND TIME FOR SUBMISSION OF TENDER	:- 22.08.2013 upto1300 hours
5. DUE DATE & TIME OF OPENING OF TENDERS	:- 22.08.2013 at 1600 hours

 Set of Tender Documents can be received from the office of XEN/Mtc. Planning-I, PTPS, Panipat on request by remitting the cost of tender documents of Rs. 1132/- (Nonrefundable) in cash at the counter of PTPS, Panipat in the form of BA-16 (Cash Receipt) / DD in favour of Sr. A.O. (O&M-II), PTPS, Panipat.

Alternatively the set of tender documents can also be downloaded from the **HPGCL website www.hpgcl.gov.in** and cost of tender documents of Rs. 1132/- in the form of DD/BA-16 must be enclosed in a separate envelope at the time of submission of tender. The tender submitted without tender cost shall not be entertained.

3. **<u>QUALIFYING REQUIREMENTS</u>:-** The tender of only those bidder shall be considered who will produce the documentary proofs in support of following qualifying criteria:-

THE FIRM SHOULD:-

 Have already successfully executed similar type of Thermal Insulation works of Boiler / Turbine and Spray insulation works of Turbine of 110 MW capacity or above, during preceding 05 years reckoned from 30.6.13 against a single work order at least amounting to Rs. 8.00 Lac placed directly on them by any of the Power Plant of NTPC/ Electricity Board / State Power utilities/PSUs.

The firm shall submit the copy of work order along with the relevant satisfactory work completion certificate or the copy of repeat work orders for similar works from the same Organization, duly attested/Notarized in support of qualifying conditions.

2. Possess the valid PAN, EPF & Service Tax nos. Note: The Work Order value referred above is exclusive of all taxes and duties.

⁴ Issuance of Tender documents to any party shall not construe that such party is considered to be qualified.

5. PROCEDURE FOR SUBMISSION OF OFFERS/TENDERS:-

- A) Tenders (in duplicate) should be submitted by the bidders, in Two Parts and in five separate sealed envelopes, as detailed below, addressed to XEN/Mtc. Planning-I, PTPS Panipat -132105 along with list of following enclosures/envelopes on or before of last date of submission of Tenders:-
- a) <u>1st Sealed Envelope</u> shall contain the Cost of tender documents of Rs. 1132/-in the form of DD/BA-16 and marked as "Cost of tender documents against NIT No..... (For downloaded tenders only.)
- b) <u>2ndSealed Envelope</u> shall contain the Earnest money in the form of Demand draft drawn on the State Bank of Patiala payable at Thermal plant or any scheduled bank at Panipat in favour of Sr. A.O.(O&M-II), PTPS, Panipat-132105 and marked as "Earnest money against NIT No.......
- c) <u>3rd Sealed Envelope</u> shall contain the Documentary proof of meeting Qualifying criteria and marked as "Qualifying documents against NIT No.....
 - **Note:-** Tenders/offers received without any of the above mentioned documents shall be liable to rejection.
- d) <u>4th Sealed Envelope</u> shall contain Part-I tender comprising of Techno commercial offer i.e. Technical Bid containing the Scope of work , General/Special Terms and Conditions , Labour laws, Supervision & Quality control of work, Payment Terms, Completion Schedule & deviations if any and sealed in separate sealed cover super scribed with NIT no.-----.
- e) <u>5th Sealed Envelope</u> shall contain Part-II tender i.e. Price Bid only and sealed in separate sealed cover super scribed with NIT no. -----.
- B) All these five sealed envelopes shall be kept in a separate sealed cover super scribed "NIT No." & details of all the five sealed envelopes and shall be submitted/sent to the office of XEN/Mtc. Planning-I, PTPS Panipat, on or before the date and time of submission of offers/tenders of subject cited tender enquiry.
- **C)** Tenders received late i.e. after the due date & time will not be entertained irrespective of whether the same was sent by registered post. HPGCL takes no responsibility for any loss/delay/non receipt of tender sent by post. Offers received late/incomplete are liable for rejection.

6. Opening of Tenders:-

On due date & time of opening, only 03 envelopes i.e. 1st, 2nd & 3rd envelope containing cost of tender documents, Earnest money & credentials in support of qualifying criteria shall be opened.

The **Committee** nominated by HPGCL shall evaluate the same in respect to the parameters indicated under heading 'Qualifying requirements at Sr. No. 3 above. Subsequently, the **Part-I** shall be opened of only those firms who are qualified by the committee. The decision of the committee shall be final and would be binding upon the bidders.

- 7. In case, no deviation is found in **Part-I tenders of all the qualified firms,** then **their Part-II** tenders shall be opened on the same day; otherwise their **Part-II** tenders shall be opened on subsequent date.
- 8. In case due date of sale/receipt/opening of tender happens to be holidays in PTPS the needful will done on next working day.
- 9. CE/PTPS-2, PTPS, HPGCL, Panipat reserves the right to cancel the NIT or to reject any/all tenders without assigning any reason, and will not responsible & will not pay for any expenses or losses that may be incurred by the tenderer in preparation of the tenders/offers.
- 10. Negotiations, if required would be held with L-I bidder only.

GENERAL INSTRUCTIONS TO TENDERERS

All tenderers must carefully observe the following instructions and offers/tenders not strictly in accordance with these instructions will be liable to rejection:-

- **1.** Tenders must be complete in all respects.
- 2. Telegraphic tenders/offers will not be accepted.
- **3.** Tenders should be submitted in 'DUPLICATE', per Registered post or by hand, all the pages of each copy should be duly signed & stamped, both copies should be separately tagged & clearly marked as 'ORIGINAL & 'DUPLICATE'.
- **4.** Offers/tenders should positively reach before last date prescribed for their receipt, those received late will not be considered irrespective of whether the same was sent by Regd. post and place of posting.
- **5.** Tenders/offers received without earnest money shall be straight way rejected.
- **6.** The offer/tender should be typed or written in ink. Offer/tender written in pencil shall be ignored.
- 7. The offers/tenders will be opened on the date & time prescribed in the Notice Inviting Tender Documents. In case, the date of opening falls on a holiday or a holiday is subsequently declared on that day, the tenders will be opened on the next working day following the holiday.
- 8. The prices quoted by the tenderer should be competitive and as prevailing in the market and should be firm. Prices should be quoted per unit also wherever applicable and asked.
- **9.** Since the contractor will be handling sophisticated equipments, he must have proper skilled staff that has already worked on similar jobs. Qualification & experience of all skilled workers as well as Engineers should be given in tenders. The period for which these categories of people have been working with the firm and their experience on similar jobs should be indicated distinctly.
- **10.** The contractor is required to mobilize all the men, material & T&P etc. at site within <u>03 days</u> of the notice which will be given to him.

11. STUDY OF TENDER DOCUMENTS

Before quoting, the tenderer shall carefully study all the clauses and specifications of the tender documents. If tenderers have any doubt for the meaning of any portion of the tender specifications or find discrepancies or omissions in the drawings or the tender documents issued are incomplete or needs clarification in technical aspects, scope of work etc., he shall at once contact the authority inviting the tender for clarifications before submission of the tender. No arguments on this account whatsoever shall be entertained after the last date & time of submission of tenders.

12. SITE OF WORK INSPECTION

Before tendering, the tenderer is advised to inspect the site of work & the environment and make acquaint with the actual work & other prevalent conditions, facilities available, position of material & labour. No claim will be entertained later, on the ground of lack of knowledge.

13. EARNEST MONEY

- a) The tenderer shall be required to deposit earnest money of **Rs. 39,000/-** in one of the following forms
 - i) Demand draft drawn on the State Bank of Patiala, payable at Thermal Plant, Panipat or any scheduled Bank at Panipat in favour of Sr.AO/O&M-II, PTPS, Panipat-132105.
 - ii) Cash at counter of PTPS, Panipat in the form of BA-16. Earnest money in the name of any officer other than the mentioned above & in any other form will not be accepted.

- b) The earnest money of successful tenderer will be treated by the HPGCL as part of the security deposit for faithful execution of the contract.
- c) The bank charges, if any, will be to the account of tenderer.
- d) No claim shall be entertained against the Board in respect of interest on earnest money deposit or its depreciation in value.
- e) The failure on the part of successful tenderer to honor his commitment given in the tender will constitute a default and in that event, his earnest money will stand forfeited by the HPGCL.
- f) The earnest money should be submitted in a separate envelope, which should bear the works "Earnest money amount <u>Rs.</u> *I*- enclosed". The envelope should be properly sealed & signed by the tenderer. Tender enquiry No------due date ______should also be mentioned on this envelope.

14. RATE/PRICE QUOTING METHOD

The tenderer shall quote the prices in English language and international numerals. The rates shall be in whole rupees and shall be entered in figures as well as in words. For the purpose of tender, the metric system of units shall be used.

15. OVERWRITING

All entries in the tender shall either be typed or written in ink. Erasers and over-writing are not permitted and may render tenders liable to summary rejection. The tenderer shall duly attest all cancellations and insertions.

The power of attorney in the name of signatory on behalf of the company, for signing the tender documents and other papers of the contract should be furnished with Part-I tender.

16. DEVIATION

Tenderer's offer and remarks and any deviation shall be strictly with reference to sections and clause numbers given in the tender schedule, which should be strictly adhered to.

17. RATE QUOTING SHEET

- i) The tenderer will quote their rates **STRICTLY AS PER THE RATE QUOTING SHEET AT ANNEXURE-VA &VB.**
- ii) **CONDITIONAL DISCOUNT** offered by any tenderer will not be considered for the purpose of relative comparison of rates quoted by participating tenderers.
- **18.** The officer inviting tenders reserves the right to modify the tender as a whole or in parts and will not be responsible and not pay for any expenses or losses that may be incurred by the tenderer in the preparation of the tender.
- **19.** The officer inviting tenders reserves the right to accept or reject any or all tenders without assigning any reasons and will not be responsible and will not pay for any expenses or losses that may be incurred by the tenderers in preparation of the tenders.

20. VALIDITY

The validity of tenders should at least be for a period of <u>90 days from the</u> <u>date of opening of Part-Ilof the tender(Price Bid).</u>

- 21. Any tenderer who has participated in Original NIT/ Corrigendum can **revise Price bid / Part-II tender** suo-moto any times and at any time before opening of Price-bids but in that case all the Price bids including original one shall be opened and lowest bid shall be considered for all the purposes.
- **22.** The whole work against this tender shall be awarded to a single firm whose overall quoted/equated prices are lowest for the complete package.
- **23**. Any statutory taxes/levies, if to be charged extra, should be clearly indicated by tenderer in their offer separately, failing which it will be presumed that their quoted prices are inclusive of all such statutory taxes/levies.

Xen/Mtc. Planning-I, For CE/PTPS-2, HPGCL, Panipat.

TECHNICAL TERMS & CONDITIONS FOR SPRAY & THERMAL INSULATION WORKS OF 110MW

<u>UNIT-4, PTPS, PANIPAT:-</u>

- 1. All the material required for the insulation erection shall be arranged by the contractor/firm itself.
- 2. All types of tools, tackles& consumables etc. shall be arranged by the contractor/firm itself.
- 3. Work shall be carried out to the entire satisfaction of BHEL/PTPS Engineers. Any modification/deviation from the given lines suggested by our supervisory agency shall have to be complied by the contractor/firm.
- 4. Payment will be made for the actual work carried out by the contractor/firm.
- 5. Test certificate for the material used shall be provided by the contractor/firm to the concerned Engineer-in-Charge.
- 6. Insulation thicknesses for various pipes/valves/equipments etc. are indicated in the scope of work. The indicated insulation thickness is only the guideline. The contractor is to design and specify the insulation thickness (if variation from the given thickness) fulfilling the surface temperature requirement to the satisfaction of Engineer-in-charge. Any work required to complete the above job is deemed to be included in the scope of work to meet with the surface temperature requirements.
- 7. The measurement of work done shall be taken as per IS-14164-1994 and the insulation work shall be done by the firm as per the specifications.
- 8. The removal and providing of thermal insulation from equipments/pipes will be in the scope of contractor and thereafter the contractor shall lift the dismantled unusable insulation material and transport the same to the low lying areas within the premises of the plant is directed by the executing agency. Aluminum scrap is also to be shifted to the O&M Store by the contractor after completion of work.
- 9. The contractor shall carry out Erection/dismantling of scaffolding wherever required.
- 10. EOT crane, water, electricity, compressed air will be given by PTPS at the nearest available location points.
- 11. The insulation will be removed (from the damaged portion) and applied as per the directions of the concerned Engineer-in-Charge.

12. WARRANTY/GUARANTEE

Defective design, material and workmanship shall be rectified by the contractor at its own cost for a minimum period of **90 days** from the date of successful commissioning of the unit. In case, the contractor fails to respond within reasonable time, the job will be got done from any other agency and the entire expenditure thus incurred will be debited to the contractor.

The temperature of finished surface shall not exceed 55°C within an ambient temp. of 35°C inside TG hall (20°C above the ambient temp. specified). If temperature is more and heat losses exceeded on actual measurement, the contractor shall either replace the insulation with superior material or provide additional insulation thickness at the Mtc. Wing's discretion at no extra cost to PTPS.

The security of the contractor shall be released after the successful completion of its warranty/guarantee period.

13. SPRAY INSULATION OF HP/IP TURBINE AND VALVES

The spray insulation to be provided on IP turbine and its control valves/stop valves etc. should meet with the following technical requirements: -

- i) The thermal insulation of turbine shall consist of asbestos free mineral wool conforming to IS-3677 mixed with suitable filling and binding agent or calcium silicate (asbestos free) conforming to IS-509, further protected by hard setting cement with oil resistant coating.
- ii) Insulation thickness to be applied shall be for following temperatures:
 - a) Ambient temperature 40° C, maximum permissible surface temp. 55°C.
 - b) Heat loss not to exceed 190 K Cal/m² for natural airflow.
- iii) The thermal insulation is to be carried out by spray method for turbine casing body. The finishing layer should consist of hard setting cement conforming to IS-9743 Type-I or equivalent. It shall be covered by oil resistant paint,
- iv) The supporting system for carrying insulation should consist of MS Lugs strips of 10mm thickness welded on to pads/strips already provided on the body casing or to be provided if required.
- v) The hard coat should consist of self-setting cement compound CAT-9. It should be quick drying blended with suitable filler hard cement. Finished thickness should be 20mm at the top and 10mm at the bottom. It should not develop cracks under normal condition of thermal expansions/contractions. A layer tissue fabric shall be wrapped all over the insulation in semi-wet condition and finally finished with oil and fire resistant paint of selected grade and shade up to the thickness of 80-100 microns. This jacketing on insulation shall fulfill the following requirements:
 - a) Oil resistance and oil proof ness.
 - b) High flash point Fluid resistance and high flash point fluid proof ness,
 - c) Resistance to the temp. up to 100° C.
 - d) Uniform surface smoothness,
 - e) That it can be walked on after two days.
 - f) That it can be repaired with sealing putty in case of the appearance of crack.
- vi) All the thermo couples has to be marked with sleeves made out of aluminum sheet for proper access during mtc. and replacement whenever necessary as per BHEL specifications.

- vii) All the cap nuts shall be covered with 0.63mm Aluminum foil before applying the insulation.
- viii) At the front and rear ends to turbine casing Aluminum sheet of 2mm thickness shall be suitably provided.
- ix) <u>TECHNICAL REQUIREMENT</u>
 - The insulation applied shall meet with the following requirements: -
 - a) The difference between cold face of the insulation and ambient will not be more than 15⁰C.
 - b) The difference in metallic temp. of the top and bottom of IP turbine casing during normal operating conditions shall not be more than 15^oC.
 - c) All the piping below turbine casing where spray type insulation is finished and mattress insulation starts, shall be finished with CAT-9 hard setting to one more length.
 - d) After completion of work, the contractor shall get the temperature of finished surface checked from Engineer-in-Charge of work with his own instrument.
- x) The durability and adherence of insulation layer particularly at the bottom of IP casing is required. 20% extra insulation thickness needs to be provided at the bottom to meet with top bottom temperature difference requirement.
- xi) There shall be no air pockets inside the insulation.
- xii) GI sheet should be of the 24 SWG conforming to ISI-2770-1969 latest version, other accessories like binding wire, self-taping screws, nooks, rivets etc. should be as per standard practice.
- xiii) Black anticorrosive paint should be applied on the side of GI sheeting facing the insulation surface.

14. THERMAL INSULATION OVER BOILER/TG EQUIPMENTS & PIPE LINES

The thermal insulation of turbine & boiler equipments/pipe lines should meet with the following technical requirement: -

i) Matting material: -

The basic thermal insulation material to be used shall be lightly resin bonded, machine laid, machine stitched, factory made Rock wool mattresses of 144/150 Kg/M³ density (as per IS: 8183-1976) consisting of incombustible rockfibres and suitable for applications up to 750°C temperature. The netting to be used is mentioned against each item is as per scope of work attached.

<u>Cladding material</u>: Technical specifications of the cladding material to be used will be as per scope of work attached.

- 15. The insulation should be supported on surface from all sides through pins, studs, nuts & washers etc. to prevent it from slipping.
- 16. Any other work, which is not mentioned above but is required for the completion of job, will be deemed to be included in the scope of work.

Xen/Mtc. Planning-1, For CE/ PTPS-2, Panipat.

SCOPE OF WORK

Annexure-IV

Sr. No.	Description of equipments to be insulated	Temp (⁰ C)	Insulatio n	Description	Description of Cladding	
		(-)	Thicknes s (mm)	Material	Thickness mm)	e Area (m²)
I)	THERMAL INSULATION WORK -					
1	MS lines, HRH lines and their equalizing lines	540	145	Aluminum	0.56	100
2	CRH Lines, HPH- 1 & 2 feed water lines, HP heater extraction line, 11-ata PRDS header.	350	120	Aluminum	0.56	180
3	11-ata drains, fuel oil heating & HP sealing, 6- ata bypass & other lines from 11-ata header, ejector steam line, MS & HRH drain lines, HP gland sealing line, E_2 header drains, 11-ata bypass line.	250 to 350	75	Aluminum	0.56	250
4	Drip line of HP/ LP heater, HP heater drip to Dearator line, BFP suction line, Dearator storage tank, CEP recirculation line, condensate lines, balancing leak off line, Dearator make up line & warm up lines	150 to 250	65	Aluminum	0.56	400
5	Providing, fixing of thermal insulation on U- pipe and Omega pipe lines	535	200	Aluminum	0.56	80
6	Providing, fixing of thermal insulation on the cross-over pipe lines and their flanges. LPH-3, 4, 5, GSC, CSC, ejector	200 to 250	100	Aluminum	0.56	250
7	Providing, fixing of thermal insulation on LP heaters I & II (L&R), LP extraction lines, glands sealing steam leak off lines, drains etc.	100	50	Aluminum	0.56	80

II) <u>s</u>	SPRAY INSULATION WORK -					
1	Supply, providing and fixing of new spray insulation on turbine's HP & IP cylinders TOP parts, HPQCVs, LPQCVs, IVs along with CAT-9 plaster and at least 2-coats of heat resistant paint on insulated surface.	535	200 + 50 mm -00.00 mm	NA	NA	170
2	Supply providing & fixing of news Spray insulation on turbine's HP & IP cylinders BOTTOM parts along with CAT-9 plaster and at least 2 coats of heat resistant paint on insulated surface.	535	300 + 50 mm -00.00mm	NA	NA	60
3	Supply, providing and fixing of new Spray insulation on turbine's LP cylinder Top & Side portion and its flanges, including top parts/ domes of LP heaters I&II along with CAT-9 plaster and at least 2-coats of heat resistant paint on insulated surface.	200	100 + 50 mm -00.00mm	NA	NA	60

Note:

1. The contractor shall lift insulation scrap after completion of work and to be disposed off to ash dyke outside the plant premises and the site shall be made neat and clean.

Xen/Mtc. Planning-1, PTPS, Panipat.

RATE QUOTING SHEET

ANNEXURE-V

Sr. No.	Description of equipments to be insulated		Temp Insulation ([°] C) Thicknes s (mm)		Description of Cladding		Rates to be quoted by the Contractor in Rs.	
				Material	Thickness mm)		Unit Rate	Total
II)	THERMAL INSULATION WORK -						Rs.	Rs.
1	MS lines, HRH lines and their equalizing lines	540	145	Aluminum	0.56	100		
2	CRH Lines, HPH- 1 & 2 feed water lines, HP heater extraction line, 11-ata PRDS header.	350	120	Aluminum	0.56	180		
3	11-ata drains, fuel oil heating & HP sealing, 6-ata bypass & other lines from 11-ata header, ejector steam line, MS & HRH drain lines, HP gland sealing line, E_2 header drains, 11-ata bypass line.	250 to 350	75	Aluminum	0.56	250		
4	Drip line of HP/ LP heater, HP heater drip to Dearator line, BFP suction line, Dearator storage tank, CEP recirculation line, condensate lines, balancing leak off line, Dearator make up line & warm up lines	150 to 250	65	Aluminum	0.56	400		
5	Providing, fixing of thermal insulation on U-pipe and Omega pipe lines	535	200	Aluminum	0.56	80		
6	Providing, fixing of thermal insulation on the cross- over pipe lines and their flanges. LPH-3, 4, 5, GSC, CSC, ejector	200 to 250	100	Aluminum	0.56	250		
7	Providing, fixing of thermal insulation on LP heaters I & II (L&R), LP extraction lines, glands sealing steam leak off lines, drains etc.	100	50	Aluminum	0.56	80		
	1	Fotal	I			<u> </u>		

II)	SPRAY INSULATION WORK -						
1	Supply, providing and fixing of new spray insulation on turbine's HP & IP cylinders TOP parts, HPQCVs, LPQCVs, IVs along with CAT-9 plaster and at least 2-coats of heat resistant paint on insulated surface.	535	200 + 50 mm -00.00 mm	NA	NA	170	
2	Supply providing & fixing of news Spray insulation on turbine's HP & IP cylinders BOTTOM parts along with CAT-9 plaster and at least 2 coats of heat resistant paint on insulated surface.	535	300 + 50 mm -00.00mm	NA	NA	60	
3	Supply, providing and fixing of new Spray insulation on turbine's LP cylinder Top & Side portion and its flanges, including top parts/ domes of LP heaters I&II along with CAT-9 plaster and at least 2-coats of heat resistant paint on insulated surface.	200	100 + 50 mm -00.00mm	NA	NA	60	
	Total						

Total in words ------

Service Tax for A+B ------

Note: Any statutory taxes/levies, if to be charged extra, should be clearly indicated by tenderer in their offer separately, failing which it will be presumed that their quoted prices are inclusive of all such statutory taxes/levies.

Signature & Stamp of the Contractor

1. <u>SECURITY DEPOSIT</u>

III.

- I. The contractor shall deposit the security equal to **10%** of the total value of the work order with Sr.AO/O&M-II, PTPS, Panipat within 07 days of receipt of work order, otherwise the security deposit amount will be deducted from the first payment bill of the contractor.
- II. The earnest money amount of **Rs.39,000/-** deposited by the firm vide DD No dated and drawn on Bank, will be adjusted against security deposit.

No claim shall be entertained against HPGCL in respect of interest or any depreciation in the value of security deposit.

If the contractor fails or neglects to observe or perform any of his obligations under the contract, it shall be lawful for the HPGCL to forfeit either in whole or in part, in its absolute discretion, the security deposit furnished by the contractor.

If the work order has been issued but the contractor refuses to comply with it, the EMD deposited by contractor shall be forfeited in full, irrespective of Whether HPGCL sustains any loss on account of his default or not.

The forfeiture of security deposit shall be without prejudice to the right of HPGCL to recover any further amount or any liquidated and/or other damages as admissible under the law, under payments or over payments made to the contractor under this contract or any other contract as well as to take such administrative action against the contractor as blacklisting etc

In the event of breach of contract in any manner, the security deposit shall be forfeited and adjusted against the claim of HPGCL on the contractor for any damages or for any loss sustained by HPGCL on account of such breach.

IV. The security deposit of the contractor shall be retained by HPGCL for the entire period of contract including the warranty/guarantee period as per clause of "Warranty/Guarantee." and the same shall be released after warranty/guarantee period of successful running of the equipment (s) after overhauling.

2. COMPLETION PERIOD

- i.) The **removal** of insulation will be started immediately after clearance is given by the concerned Xen/Incharge of the work and will be completed within **05days** from the date of clearance of each front.
 Re-application of insulation (matting) of each front will be started immediately after clearance from the concerned Xen/Incharge of the work and will be completed within **08 days or before light up of boiler** whichever is earlier.
- ii.) The cladding work will be completed within 30 days after light up of boiler.
 iii.) The work shall be started immediately but not later than 03 days from the date of notice, which will be given to the contractor. However, the actual date of commencement for the purpose of completion period & application of penalty clause shall be notified by Xen/Incharge of the work i.e. Xen/TG-II.
- iv.) The work shall be carried out to match with other activities in progress of the unit.
 v.) The quantum of work may increase or decrease depending upon the
- vi.) plant/equipment condition. Payment shall not be made for the work not done. The contractor will have to work under the strict supervision of HPGCL Engineers and may have to do the work a number of times if required till the work is found satisfactory and required parameters are achieved.
- vii.) To complete the work within the shortest possible period, work will be done round the clock in all the three shifts and deployment of manpower will be made accordingly. Details of the deployment of manpower will be given well in time to Mtc. wing and Mtc. Planning division.
- viii.) The contractor shall dispose off old insulation removed from any area falling under the scope of work order, before light up of boiler and shall deposit removed cladding material in O&M store within 15 days from lightup of boiler / completion of work.

3. WARRANTY/GUARANTEE

- I. The contractor shall stand guarantee for the workmanship of overhauling and repair of equipment(s) for a period of **90 days** from the date of commissioning of equipment(s) after overhauling.
- II. During this period if some equipment(s), which has been attended by the contractor, is found to be defective, the same will have to be attended again without any additional charges to PTPS. In case the contractor fails to respond within a reasonable time, the job will be got done from any other agency and entire expenditure thus incurred will be debited to the contractor..

4. FORCE MAJEURE

PTPS may consider the request for reasonable extension of completion period of work, without levy of the damages for delay/penalty, due to strike, lock out, natural calamities, commission/omission on the part of the PTPS and labour problems which are beyond the reasonable control of the contractor etc.

5. FAILURE & TERMINATION OF CONTRACT

If the contractor fails to adhere to the time schedule or if his services are found to be unsatisfactory, the PTPS will be entitled at its option either:

a) To cover damages as per penalty clause , if the said delay is not covered by the force majeure reasons.

OR

- b) To get the work done from any other agency after serving a notice of **03 days** on the contractor at his risk and cost and without prejudice to the provision of the work order.
 - OR
- c) To cancel the contract & forfeit the security.

6. <u>CONTRACT AGREEMENT</u>

The contractor shall execute a contract agreement on specific Performa on NJSP of Rs.10/- on receipt of work order within 07 days.

7. ADVANCE PLANNING

Immediately after receipt of work order but not later than **07 days**, the contractor will submit to concerned Mtc. Division i.e. **XEN/ TG-II Divn.**& Mtc. Planning-I Division, the Bar Charts/Pert Charts/Schedule i.e. Planning for completion of work within the stipulated period. This will be prepared in consultation with the concerned Mtc. Division In charge of the work i.e. **XEN/TG-II Divn.**

Contractor will also give the details of the manpower proposed to be deployed by him to the Mtc. Wing so as to ensure completion of the total job well within the stipulated completion period.

8. EXTRA CHARGES

- 8.1 No extra charges shall be paid for any minor repair/rectification to be carried out for any reasons not attributed to the contractor but required to complete the job. However, for major repair/rectification/modification not covered in the scope of work, extra charges shall be paid on the basis of lump sum/man hour/unit rates quoted/agreed mutually, at the time of occurring of such events. The report of extra work shall be jointly signed by the contractor and concerned PTPS supervisory officers in regard to number of man hours, working persons engaged for a job, description of work, quantity of work done, time put in from_______. No. of working hours, daily with dated signature of contractor's authorized representative and concerned PTPS supervisory officers
- 8.2 No extra payment will be made for any work carried out by the contractor for rectifying any defective work done by the contractor.
- 8.3 Depending upon the site conditions/availability of spares/other reasons, if the quantum of work actually carried out is more or less than as provided in the scope of work, payment will be increased or decreased on the basis of actual work done & regularized as per unit rates quoted/agreed by the contractor.

9. IDLE LABOUR CHARGES

No idle labour charges will be admissible in the event of any stoppage caused in the work resulting in contractor's labour being rendered idle due to any cause.

10. OVER RUN CHARGES

No over run charges shall be paid in the event of the completion period being extended for any reasons.

11. ACCOMODATION

Only unfurnished limited accommodation will be provided in Thermal Colony of PTPS, Panipat, for the duration of overhauling of unit, on chargeable basis at standard/market rent, whichever is higher. Furnished accommodation in the Field Hostel will be provided, if available, at the prevailing daily rates.

12. WATCH & WARD

The watch and ward of T&P & other material will be the responsibility of the contractor.

13. FACILITIES TO BE ARRANGED BY CONTRACTOR

The contractor shall make his own arrangement for providing all facilities like boarding, furniture and transportation etc. for his supervisors/staff engaged by him for the job.

14. INCOME TAX & SALES TAX

Statutory deduction on account of Income Tax & Sales Tax including surcharge shall be made at source from the bills of the contractor at the prevailing rates by Sr.A.O/O&M-II, PTPS, Panipat.

15 SAFETY RULES

- A Firm shall have to comply with all the provisions of safety rules. The Chief Safety shall impose penalty of Rs.200/- per day per head if the workers of Firm Officer are found to be working carelessly without proper protective equipments in unsafe conditions. Against violation of any other clause, a penalty of Rs 500 /- per violation (minimum) shall be levied. In case of repeated violation of serious nature resulting in various serious accident or direct loss to the corporation/threatens to cause severe consequences, higher penalty rates may be imposed including suspension/ termination of the contract. In case of any fatal/non fatal accident or any other violation of factory act, 1948, Pb. Hr. factory rules, 1952 or any other industrial or labour act are made by/with the worker of the contractor and if prosecution is launched by Chief inspector of factories, Chandigarh against occupier/factory manager or any other authority of HPGCL the contractor shall be liable to deposit the amount of fine/penalty decided by the court on the same day. In case of the amount shall be recovered from the outstanding dues/liabilities of the contractor against this contract or any other contract at PTPS besides other action HPGCL may deem fit.
- **B** A safety clearance certificate from the chief safety officer has to be attached along with the bill.
- 16 The scope of work **(Annexure-III)** is only tentative and as per the prevailing conditions of the equipment. The actual quantum of work will be known after opening of the equipment at the time of execution of work.
- 17 The activities mentioned in the scope of work in Annexure-III are details of possible works connected with the overhauling of equipments. However, it is not possible to list out all the minor activities in detail. So, all such minor/any other left out activities essential for overhauling & commissioning of the equipments shall be deemed to be included in the scope of work.

18 SUB LETTING

No sub letting of the contract shall be allowed and any subletting will lead to cancellation of the contract. However, as a special case, CE/O&M-II after considering technical capability of the sub contractor may allow sub letting for which the successful contractor will submit requisite documents to Xen/In charge of the work.

19 As the manpower will be handling costly & sophisticated equipments of the powerhouse, therefore, the contractor will ensure that only skilled personnel, who have already handled such equipments during overhauling, should be deployed. The contractor will deploy competent site supervisor who should have at least 2-years experience in case of diploma holders & above qualification and at least 10-years experience of particular discipline in case of non-diploma holder. The proof of their deployment with the firm for at least 6- months needs to be supplied along with list of supervisors to Xen/In charge of work before start of work.

20 **LIABILITY**

This office reserves the right to claim adequate compensation from the contractor on account of any damage caused to the plant & equipment handed over to him for execution of the work, due to careless handling or negligence on the part of the contractor. However the total liability arising out of this contract shall be limited to the contract value.

- 21 The recovery in respect of any spares which get damaged due to negligence on the part of the contractor will be done at the rates as mentioned in the price catalogue of BHEL or any other PO/Source, plus 10% supervision charges.
- 22 During the course of this work, the contractor shall keep a competent authorized representative and his assistants so that the progress of the work is not hampered. The representative shall represent the contractor in his absence and all directions given to him shall be binding as if given to the contractor. In no case, the authorized representative can refuse to receive the instructions.
- 23 <u>Set Off Clause</u>:- Any sum of money due and payable to the supplier under a contract (including security deposit returnable to the supplier) may be appropriated by the Corporation and set off against any claim of the Corporation for the payment of a sum of money arising out of that or any other contract entered into by the supplier with the Corporation.
- 24 <u>Arbitration:</u> All matters, questions, disputes differences and / or claims arising out of and / or concerning and / or in connection with, and /or in consequence of, and /or relating to any contract under these Regulations, whether or not obligations of either or both the supplier and the corporation under that contract be subsisting at the time of such dispute and whether or not the contract has been terminated or purported to be terminated or completed, shall be referred to the sole arbitration of MD, HPGCL or an officer appointed by MD, HPGCL as his nominee. The award of the Arbitrator shall be final and binding on both the parties to the contract.

The objection that the Arbitrator has to deal with matters, to which the contract relates, in the course of his duties or, he has expressed his views on any or all of the matters in dispute or difference, shall not be considered as a valid objection.

The Arbitrator may, from time to time, with the consent of the parties to the contract enlarge the time for making the award. The venue of the arbitration shall be the place from which the acceptance of offer is issued or such other place as the Arbitrator, in his discretion, may determine.

All arbitration proceedings under this Regulation shall be governed by the provisions of the Arbitration and Conciliation Act, 1996 and the Rule there under, with any statutory modifications thereof for the time being in force.

- 25 The contract is subject to jurisdiction of Courts of Panipat only.
- 26 The contractor will bring the required material from the Store/other sites to the site of the work and should ensure the return of the dismantled/damaged parts to the Store.
- 27 The contractor shall keep the site clear and remove silt and dispose of all the waste material and rubbish from site as & when it accumulates and as directed and shall carry out any measure required complying with healthy and hygienic conditions. The site should be left clean and tidy to the satisfaction of Engineer-in-Charge.
- 28 HPGCL reserves the right to cancel the work order at any time without assigning any reasons and will not be responsible and will not pay for any expenses or losses that may be incurred by the contractor towards preparation/mobilization for execution of the job against work order.
- 29 "For payment through R.T.G.S., the contractor will provide complete bank details like name of Bank, Account No., IFSC Code, Type of account and branch name to Sr.A.O./PTPS-II. RTGS Bank charges to be born by the contractors/suppliers."

30 TERMS OF PAYMENT

- **30.1 50% payment** of contract value will be paid as running payment without protocols but on the certificate by the concerned Mtc. Division that minimum **60% work** stands completed.
- **30.2** Next **30% payment** of contract value will be paid without protocols but on the certificate by the concerned Mtc. Division that minimum **90% work** stands completed.
- **30.3** Next **10% payment** of contract value will be paid on **completion of work** and after submission of **protocols** duly signed by all agencies.
- 30.4 Balance 10% payment will be released after 30 days of completion of work.

31. <u>PENALTY CLAUSE</u>

The contractor will ensure timely completion of the job within stipulated period. However, if any part of the job is not completed within scheduled/stipulated period, penalty will be imposed as under: -

- 31.1 Penalty @ 0.25% of the contract value will be levied per day for the first 10 days delay.
- 31.2 Further penalty **@ 0.5%** of the contract value will be levied per day for the delay beyond 31.1 above.

However, total penalty leviable including that of 31.1 & 31.2 above will be subject to **maximum of 10%** of contract value of the work order.

Xen/Mtc. Planning-I, For CE/, PTPS-2, Panipat.

ANNEXURE-VII

LABOUR LAWS

1). Registration of Establishment (PTPS) and obtaining the Labour License/ Renewal. The Registration of Panipat Thermal Power Station with the list of working Contractors is required under Section -7 of Contract Labour Act, 1970. The name of working Contractor must be on the list of Contractors otherwise he (contractor) will not get Labour License/Renewal from the Labour Department, Haryana Govt. So as and when the work is awarded to the contractors other then included in the list of contractors attached with the Registration of Panipat Thermal Power Station, the contractor will ensure that his name on the prescribed Performa is intimated to the Centralized Agency by the officer in charge of the work for getting his name including in the said list.

Further after the needful, the contractor will be under obligation to obtain labour license/ its renewal under Section 12 of ibid Act from the Labour Department, Haryana Govt. by completing the requisite formalities.

Payment of wages to the workers deployed on the work Under Section 63 to 73 of Contract Labour Act-1970

The contractor will be bound to pay wages to the workers deployed by him on the work as per minimum wages fixed by Labour Department, Haryana Govt. , Chandigarh and follow revision from time to time. He will display on the notice Board of his site office, the date of making monthly wages payment which should be on or before 7th of every month. The payment shall be made in currency & coins in the presence of authorized representative of the Principal Employer/ official from the Labour Department Haryana Govt. In case of default , the contractor will be liable for prosecution under the ibid Act.

Maintaining the Registers and records Under Section – 74 to 78 (a to d) of Contract Labour Act-1970 .

The contractor shall maintain necessary records under the provisions of ibid Act viz. Register of Workman employed (Section -75), Issuing of Employment Cards (Section 76), Service Certificate (Section 77), Register of wages (Section 78 (a) to (d)), Attendant Register, Register of Over time , Register of deduction, Register of advance, Register of fines, Issuing of Wages Slips, etc., the same shall be made available with the site In charge of the work or authorized representative of the contractor for checking/ inspection as and when required by the officer In charge of PTPS authorities or Labour Department , Govt. of Haryana. Non maintaining/ non production of the above Registers /Forms , under Section- 23 – 24 of the ibid Act will be treated as offence and contractor will be liable for prosecutions by the Labour Department, Govt. of Haryana.

Age limit of the workers.

No labour below the prescribed limit of age i.e. 18 years and above 60 years shall be employed by the contractor on his allotted works.

5.A) Compliance of various Labour Acts.

The contractor shall abide by all the labour laws required to be followed and he shall furnish an undertaking on NJSP of appropriate value duly attested by the Notary Public to the effect that he will comply with all the Acts, laws and Regulations as may be applicable with regard to performance of work including Factory Act-1948, Industrial Dispute Act-1947, Employees State Insurance Act-1948, Employee Provident Fund Act-1952, Payment of Wages Act-1936, Minimum Wages Act-1948, Contract Labour Act (R&A, 1970) Workmen compensation Act 1923 and others rules and regulations as framed by the Central/ State Govt. in this regard from time to time.

(B). The contractor shall also specify in the above Undertaking that all the labour / workmen engaged by him for rendering the services under the contract, will be the employees of the contractors for all intents and purposes and shall have no claim / right on the HPGCL. All the risks, responsibilities and liabilities towards his labour shall be owned by him. The contractor will take such steps as may be directly responsible for any dispute arising between him and his labour / workmen and keep the HPGCL and its officers indemnified from and against all losses, damages and any claim/ liability arising there from. Under no circumstances whatsoever, HPGCL would be held responsible in respect of contractor's workers. In case any expenditure is incurred by HPGCL as a result of certain dues on the part of the contractor's labour or otherwise, the HPGCL is entitled to recover / claim such dues /compensation from the contractor's pending payments bills or through court of law.

(C) Besides the above, the contractor shall obtain an affidavit on the NJSP value duly signed and witnessed by him under his seal and duly attested by the Notary Public from his each and every individual worker/ employee that they will not claim any employment in HPGCL in lieu of services rendered by them to the contractor namely M/S ______ Work Order No. ______ dated _____ and all the disputes, whatsoever and of any nature, will be settled by their contractor who has engaged them. These affidavits along with his own undertaking as per Para-A&B above, shall be submitted by the contractor to the Officer-in-Charge (Applicable for ARC/AMC type contracts only).

2)

3)

4)

6) Deposit of EPF contribution of the workers along with Employer share.

It is statutory obligation for the contractor to deduct EPF contribution for the employee drawing wages up to Rs.6500/- per month. The rate of deduction i.e. 12% on the minimum wages fixed of the labour by the Govt. or actual wages drawing (i.e. basic pay +DA +cash value of food concession +leave encashment) and deposit the same with his share @ 12% (8.33 % in pension fund and 3.67% in employees contribution) and deposited the same with the EPF Department with 1.61% administrative charges in their allotted EPF Code up to 15th of due month failing which interest and damages will be charged., Copy of the deposit challan alongwith ECR for 25.61% as mentioned above shall be submitted along with running bills in the office of officer in charge of the work by the contractor. It is responsibility of the contractor to make the inspection of record of deposit of EPF contribution of their labour from the EPF Department and copy of the same will be submitted to the officer incharge of work / Accounts Branch/CLWO and only after that the security of the firm will be released.

The contractors having out of state EPF Code will also get their record inspected from Local EPF office. (Panipat).

7) Deposit of ESI Contribution of the workers along with Employer share.

It is statutory requirement for the contractor under ESI Act 1948 that the workers drawing gross wages up to Rs.15000/-, 1.75% contribution is deducted from the wages of such worker and deposit along with Employer share of 4.75% i.e. total 6.5% with the authorized bank/ branches of ESI Department by the contractor to cover their workers under ESI Scheme up to 21st of due month, otherwise, interest and damage will be charged on deposit of delayed payment. The contractors will get their ESI Code.

It is also responsibility of the contractor to get the facilities as provided under ESI scheme, extended to their workers viz. issuance of ESI Cards, filing the Returns on prescribed **Form- 6** on due dates i.e. 12 May, 11 November, every year in local ESI office., otherwise he will be prosecuted by the ESI Department as provided in the ibid Act. In case of non issuance of ESI Cards, the workers, will not get the medical facilities / pension benefits to the widow which are provided by the ESI Department and contractors will be responsible for consequences.

8) Deposit of Labour Welfare Fund along with Employer share.

In pursuance of Haryana Govt. Labour Department Gazette Notification dated 12th April, 2012 with latest amendment, the contractors are required to deduct Labour Welfare Fund @ Rs10/- from each worker and deposit the same with Employer's share @ Rs.20/- per worker (total Rs.30/- each worker) with the Welfare Commissioner, Haryana , Chandigarh in shape of Demand Draft in their favour along with list of workers for whom the same is being deposited. The copy of proof in this respect shall be submitted along with bills to officer-in-charge/ Account Branch.

9. Factory ACT/Minimum Wages ACT/Insurance ACT/EPF ACT Etc

Strict adherence of various applicable labour laws like the Factories Act, Minimum Wages Act, ESI Act, Payment of Wages Act, the workman's compensation Act, EPF Act, Contractor labour (Regulation & Abolition) Act, 1970 and all other statutory requirements as amended from time to time to the entire satisfaction of Central/State Govt. Authorities, shall be the responsibility of the Contractor and he shall have to make good loss, if any, suffered by HPGCL on account of default in this regard by the contractor. The contractor will submit the copy of EPF Challan alongwith ECR and ESI Challan alongwith its contribution details at the time of 90% payment to CLWO. The EPF contributions will be deposited by the contractor in his own EPF code no.

10 INSURANCE OF WORKERS

The contractor will be solely responsible for any liability for his workers in respect of any accident, injury arising out and in course of contractor's employment. To meet his aforesaid obligation under the workmen Compensation Act, the contractor will obtain cover note from the Insurance Company under W.C. Policy in respect of persons employed by him for carrying out his work and obligation under the agreement. The premium payable for the aforesaid Insurance Policy shall be borne by the contractor. The contractor shall ensure that the said Insurance Policy of this insurance cover is required to be submitted by the contractor to Engineer-in-charge of work/CLWO immediately after issue of LOI, but before the start of work. Payment against the work done will not be released to the contractor until and unless the contractor submits photocopy of Insurance cover. This is mandatory for all the contractor's workers who are not covered under ESI, while working in PTPS premises.

11.) The labour clearance certificate from CLWO, PTPS, Panipat is to be attached along with the bill.

SUPERVISION & QUALITY CONTROL OF WORK

- 1. 100% checking/supervision of the work will be done by the concerned Mtc. Division i.e. **TG-II.**
- 2. The supervision will be supplemented with random/stage inspection by Mtc. Planning Division,
- 3. The contractor will submit the advance programme/list of jobs/activities proposed to be done during the week at the start, to the Mtc. Planning Division as well as to Mtc. Division. This programme shall be chalked out in consultation with the concerned Mtc. Division i.e. **TG-II.**
- 4. The contractor shall also submit the details of the actual work done at the end of every week to Mtc. Planning Division as well as Mtc. Division for record and reference whenever required. This will also be one of the basis for signing the **PROTOCOLS** as per clause –5 below after full completion of the work and successful commissioning of the equipments.
- 5. After completion of the job/work and successful commissioning of the equipments to place on record that the work has been done by the contractor as per scope of work of the work order, **PROTOCOLS** will be prepared by the contractor in consultation with concerned Mtc. Division-i (executing agency) & Mtc. Planning division (Contract Cell) and got signed from: -
- a) AE/AEE & Xen of the concerned Mtc. Divn i.e. **TG-II &** AE/AEE & Xen of Mtc. Planning Divn-I, PTPS, Panipat.

ON THIS PROTOCOL a certificate will be recorded by the contractor that all the observations pointed out during supervision by HPGCL were attended.

Xen/Mtc. Planning-I, For C.E. / PTPS-2, Panipat.