



**BHARAT HEAVY ELECTRICALS LIMITED**  
**PROJECT ENGINEERING MANAGEMENT, NOIDA**

Date-18-Nov-24

**CORRIGENDUM- 03**

<b>PROJECTs</b>	<b>:</b>	<b>KODERMA TPS PH-II (2x800 MW)</b>
<b>PACKAGE</b>	<b>:</b>	<b>Induced Draft Cooling Towers (IDCT)</b>
<b>Enquiry No.</b>	<b>:</b>	<b>77/23/6156/MAZ dtd 22.10.2024</b>
<b>SUBJECT</b>	<b>:</b>	<b>Due date Extension and supplementary HSE</b>

Type of Corrigendum			
Technical Corrigendum -	<input type="checkbox"/>	Commercial Corrigendum -	<input checked="" type="checkbox"/>

In reference to the above-mentioned tender enquiry please note the following.


1. Due date extended upto 26.11.2024 (Submission by 12:00 PM and Opening at 04:00 PM).
2. Please find attached supplementary HSE

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,

For and on behalf of BHEL

Mazhar Wahab  
Dy. Manager/BOP

 PS-ER	<b>BHARAT HEAVY ELECTRICALS LIMITED</b> <b>PSER-KOLKATA</b>	DOC. No. ER:HSE:DVC- KTPS(PH-II):SUP:01/24
	EPC (ENGINEERING, PROCUREMENT AND CONSTRUCTION) PACKAGE FOR DVC, KODERMA THERMAL POWER STATION PHASE-II (2x800MW)	REVISION No. 00
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## DOCUMENT ISSUE SHEET


(DOCUMENT REF. NO. ER:HSE:DVC-KTPS(PH-II):SUP:01/24)

THIS HSE DOCUMENT IS BASED ON AND IS AIMED AT ADDRESSING SPECIFIC HSE NEEDS & CONCERNS OF THE CUSTOMER AND INCORPORATING NECESSARY HSE REQUIREMENTS AS CONTAINED IN THE CUSTOMER DOCUMENT **DVC/C&M/ENGINEERING/KTPS(2X800 MW)/EPC/IPHB** AND IN VARIOUS SECTIONS OF THE NTPC SAFETY RULES ADOPTED BY THE CUSTOMER. IT IS A SUPPLEMENT TO BHEL HSE DOCUMENT **HSEP-14 (REV. 02) - HEALTH, SAFETY & ENVIRONMENT PLAN FOR SITE OPERATIONS BY SUBCONTRACTORS**, THE APEX DOCUMENT FOR HSE MANAGEMENT AT SITE BY BHEL SUB-CONTRACTOR(S).

THE PRESENT DOCUMENT IS TO BE READ, UNDERSTOOD AND ITS PROVISIONS TO BE IMPLEMENTED IN CONJUNCTION WITH **HSEP-14 (REV. 02) - HEALTH, SAFETY & ENVIRONMENT PLAN FOR SITE OPERATIONS BY SUBCONTRACTORS**. WHEREVER THERE IS A CONFLICT BETWEEN THE TWO DOCUMENTS ON ANY HSE ISSUE THE PROVISIONS HELD IN THE PRESENT DOCUMENT IS TO SUPERSEDE.


WHILE EVERY ATTEMPT HAS BEEN MADE TO INCLUDE ALL RELEVANT HSE GUIDELINES & REQUIREMENTS IN THE PRESENT DOCUMENT, HOWEVER, THE DOCUMENT IS BY NO MEANS EXHAUSTIVE AND IF ANY FURTHER CLARIFICATION/INTERPRETATION IS REQUIRED ON ANY HSE ISSUE THE SAME SHALL BE AT THE DISCRETION OF BHEL SITE MANAGEMENT.

THE AMENDMENTS/MODIFICATIONS, ADDITIONS, REVISION ETC. TO THE EXTANT RULES, REGULATIONS & GUIDELINES AS INCLUDED IN THE PRESENT DOCUMENT OR THE APEX DOCUMENT (HSEP:14/REV.02) OR ANY OTHER RELATED DOCUMENT ISSUED BY BHEL, CUSTOMER (DVC, KODERMA THERMAL POWER STATION) OR ANY STATUTORY BODY AT ANY LATER DATE DURING THE COURSE OF EXECUTION OF THE JOB THE SAME SHOULD ALSO BE COMPLIED WITH.


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## SECTION-A

 PS-ER	<b>BHARAT HEAVY ELECTRICALS LIMITED</b> <b>PSER-KOLKATA</b>		DOC. No. ER:HSE:DVC- KTPS(PH-II):SUP:01/24
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## **FOREWORD**

This document is developed as a supplement to BHEL HSE Document **HSEP-14 (REV. 02) - Health, Safety & Environment Plan for Site Operations by Subcontractors**, the Apex Document for HSE Management at Site by BHEL Contractor(s) and is primarily aimed at addressing specific HSE needs & concerns of the Customer & incorporating relevant HSE requirements as contained in the Customer document No. : DVC/C&M/Engineering/KTPS (2X800 MW)/EPC/IPHB. This document briefly outlines the specific HSE (Health, Safety & Environment) requirements of Customer over and above the requirements as covered amply and extensively in **HSEP-14 (REV. 02)**.


The eligible Contractor and their Employees and Workmen including outsourced manpower/workforce, if any, deployed and/or visiting the project site shall comply with the HSE provisions held in this document along with those covered under **HSEP-14 (REV. 02)** as well as any revision, amendment, modification or addition affected at a later date during the validity of the contract period. Additionally, the Contractor shall abide by and comply with all safety rules and guidelines framed from time to time by the Customer (Principal Occupier/Owner), State Government, Central Government or any appropriate Statutory Body that are relevant to and conducive of safe execution of the project ensuring adequate safety to man, material, asset and environment.

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Clause No.	Description	Related Clause in HSEP 14 (Rev. 02)	Remarks
1.1	List of suggestive safety Equipments/PPEs to be included in List of minimum T&P	List 'A' of Annexure 'C' (HSE Tools/ Equipment/Devices) (Page No. 69)	Refer Annexure 'A'
1.2	Other materials like Cables, Slings, Gloves, Goggles, Safety Belts, Safety Helmets, Heating Oven, Pre-heating / Post Weld Heat Treatment Arrangement, Material for Making Platform and Platform Support etc. shall be mobilised as per requirement.	List 'A' & 'B' of Annexure 'C' (HSE Tools/ Equipment/Devices) (Page No. 69)	Agency should mobilise adequate quantity of all such Materials/ Equipment/PPEs that are mentioned herein or may be required for safe execution of a job in addition to provisioning of the Materials/Equipment/PPEs as per List 'A' & 'B' of Annexure 'C' and any other section of <b>HSEP 14 (Rev. 02)</b>
1.3	Establishment of Safety Control Room <u>Sl. 8 of Table at Page No. 135 of Customer Bidding Document (Suggestive Milestone Schedule for Site Levelling and Basic Infrastructure)</u>	Section 'A' (Critical Resources for HSE Implementation)/Cl. 3(ii) (Establishment of Common Facilities (Page No.5)	Safety Control Room with all requisite facilities is to be established by concerned agency within the stipulated time along with establishing other Common Facilities
1.4	<u>Site Regulations and Safety (Cl. 22.3 of Customer Bidding Document)</u> i) Safety Personnel (Cl. 2 of NTPC Safety Rules) ii) Personal Protective Equipment & Safety Equipment (Cl. 4 of NTPC Safety Rules) iii) Safety Induction and Training (Cl. 8 of NTPC Safety Rules) iv) Medical and First Aid Amenities (Cl. 13 of NTPC Safety Rules) v) Compliance to Work Permit System (Cl. 17 of NTPC Safety Rules)	i Cl. 5 (HSE Personnel to be provided solely by the Sub-contractor)/Section 'A' - Critical Resources for HSE Implementation (Page No.8)  ii. Cl. 9 (Provision of Personal Protective Equipment)/ Section 'B'- Operational Requirements (Page No.29)  iii. Cl. 8-b & c (Mobilisation of Manpower by Sub-contractor) & 11.2 (HSE Induction Training)/ Section 'B'- Operational Requirements (Page No.29 & 35)  iv. Annexure 'A'-(Medical Centre & Ambulance) & Cl. 10.5 (Medical facilities) of Section 'B'-Operational Requirements (Page No.57 & 32)  v. Cl. 13.2 (Work Permit System) of Section 'B'-(Operational Requirements) (Page No.41)	i. When number of Workers is more than 4000 the deployment of Safety Manpower will be as follows- a. <b>Safety Supervisor-</b> 18 + 01 additional Supervisor up to every additional 250 workers b. <b>Safety Officer-</b> 05 + 01 additional Supervisor up to every additional 1000 workers  ii. Refer Annexure 'A' of this document for 'List of Suggestive Minimum Quantity of HSE Equipment/PPEs to be Maintained at Site'

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Clause No.	Description	Related Clause in HSEP 14 (Rev. 02)	Remarks
1.5	<p>Disposal of Scrap</p> <p><u>(Cl. 22.6.3 of Customer Bidding Document)</u></p> <p>Cl. 20/Section-I of NTPC Safety Rule</p> <p>Cl. 1.1/Section-II of NTPC Safety Rule</p>	<p>Cl. 10.8 (Scrap Yard), Cl. 15 (Housekeeping) &amp; Cl. 16 (Waste Management) of Section 'B'-Operational Requirements</p> <p>(Page No. 33,44,45)</p>	<p>i. The Contractor shall, with the agreement of the Employer/Principal Owner of the premises, promptly remove from the site any scrap/waste generated during the course of any work-activity at site including such wastes/left-overs generated after completion of a job.</p> <p>ii. The ownership of such scrap shall vest with the Contractor except in cases where the items have been issued by the Employer/ Principal Owner from its stores for their installation.</p> <p>iii. The removal of scrap shall be subject to the Contractor producing the necessary clearance from the relevant authorities (Custom, GST, Environment Management Bodies etc.), if required by the law, in respect of disposal of the scrap. The liability for the payment of the applicable taxes/duties shall be that of the Contractor.</p> <p>iv. The Contractor shall also indemnify to keep the Employer harmless from any act of omission or negligence on the part of the Contractor in following the statutory requirements with regard to removal/disposal of scrap. The Indemnity-cum-Undertaking Agreement shall be furnished by Contractor as per proforma enclosed as Annexure-B of this document. Further, in case the law requires the Employer to take prior permission of the relevant Authorities before handing over the scrap to the Contractor, the same shall be obtained by the Contractor on behalf of the Employer.</p> <p>v. All scraps/wastes should be disposed off in environment friendly manner.</p>

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Clause No.	Description	Related Clause in HSEP 14 (Rev. 02)	Remarks
1.6	<p>Watching and Lighting</p> <p><u>Cl. 22.7 of Customer Bidding Document</u></p> <p>Cl. 1.3 of NTPC Safety Rule (Illumination)</p> <p>Cl.11.5 of NTPC Safety Rule (Illumination)</p>	<p><u>Illumination</u></p> <p>Cl. 10.9 (Illumination), 19.5 (Indicative List of Inspection &amp; Periodicities) of Section 'B'-Operational Requirements</p> <p>(Page No. 34 &amp; 50)</p>	<p><u>Watching and Lighting</u></p> <p>i. The Contractor shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the Facilities, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.</p> <p>ii. Sufficient illumination at all times for maintaining safe working conditions shall be provided where workers are required to work or pass, and for passageways, stairways and landings such illuminations shall not be less than 0.5 foot-candles at the floor level.</p>
1.7	<p>War Risks</p> <p><u>Cl. 38 of Customer Bidding Document</u></p>	---	<p>“War Risks” shall mean any of the following events occurring or existing in or near the country (or countries) where the Site is located-</p> <p>(a) War, hostilities or warlike operations (whether a state of war is declared or not), invasion, act of foreign enemy and civil war</p> <p>(b) Rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts, and</p> <p>(c) Any explosion or impact of any mine, bomb, shell, grenade or other projectile, missile, munitions or explosive of war.</p> <p>If during the execution of the Contract any War Risk shall occur that financially or otherwise materially affect the execution of the Contract by the Contractor, the Contractor shall use its reasonable efforts to execute the Contract ‘with due and proper consideration given to the safety of its and its Subcontractors’ personnel engaged in the work’ on the Facilities, provided, however, that if the execution of the work on the Facilities becomes impossible or is substantially</p>

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Clause No.	Description	Related Clause in HSEP 14 (Rev. 02)	Remarks
1.7	War Risks <u>Cl. 38 of Customer Bidding Document</u> (Continued)	---	prevented for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of any War Risks, the parties will attempt to develop a mutually satisfactory solution, failing which the dispute will be resolved in accordance with GCC Clause 6.
1.8	Change In the Facilities <u>Cl. 39 of Customer Bidding Document</u>	---	The Contractor may from time to time during its performance of the Contract propose to the Employer (with a copy to the Project Manager) any Change that the Contractor considers necessary or desirable to improve the quality, efficiency or <b>safety</b> of the Facilities. The Employer may at its discretion approve or reject any Change proposed by the Contractor.

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## SECTION-B


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#### ANNEXURE 'A'

In reference to Annexure 'C' (HSE Tools/ Equipment/ Devices) of HSEP14 (Rev.2), Contracting Agency should maintain at the project site a certain quantity of various HSE Equipment/PPEs (Personal Protective Equipment) to ensure personal safety as well as work-place safety compliance at all times. Following is a suggestive, though not exhaustive, list of HSE Equipment/PPEs that should be maintained in fully functional/usable condition (validated by appropriate authority wherever applicable) at site as part of **Mandatory Minimum Stock** (combining individual stocks of all agencies/sub-agencies of BHEL available at the site and working for this project at any given time) at all times during project execution. The minimum quantity to be maintained for each item shall be as per the requirement of the site. If any agency, partially or completely, fails to comply with the obligation of providing their share of this mandatory requirement BHEL shall provide the same at the risk and cost of the concerned agency/agencies.

#### List of Suggestive HSE Equipment/PPEs to be included in List of minimum T&P:-

Sl. No.	List of Safety Equipment/Personal Protective Equipment	Minimum Quantity To Be Maintained
1	<b>Safety Net</b> (Conforming IS 11057:1984) Net Size: 10m x 5m, Mesh Size: 25 mm, Mesh Rope: 2mm double cord, Border/Tie Cord: 12mm diameter polypropylene rope (Tested as per IS: 5175). each of 2 metres length shall be provided at all four corners.	As per requirement at site
2A	<b>Fall Arrestor (Rope Grab Fall Arrestor)</b> Rope Grab Fall Arrestor: Openable & Guided type Fall Arrestor (on flexible line) conforming EN 353-2 & works on 14-16 mm diameter polyamide rope Material: Nickel Chrome plated Steel	
2B	<b>Connector</b> Karabiner conforming to EN 362 (Minimum Strength 22 KN) Material: Steel	
2C	<b>Anchorage Line (30 mtrs. length)</b> 14mm- 16 mm diameter, 3 strand, twisted Polyamide Rope	
2D	<b>Anchorage Line (40 mtrs. length)</b> 14mm- 16 mm diameter, 3 strand, twisted Polyamide Rope	
3A	<b>Horizontal Lifeline (40 mtrs. length)</b> Stainless Steel Wire rope of 8mm diameter. Minimum 06 nos. of steel U-bolt clips are required for clamping each wire rope to a rigid support (03 nos. of U-bolt clips at each end)	
3B	<b>Horizontal Lifeline (25 mtrs. length)</b> Stainless Steel Wire rope of 8mm diameter. Minimum 06 nos. of steel U-bolt clips are required for clamping each wire rope to a rigid support (03 nos. of U-bolt clips at each end)	
3C	<b>Lifeline Post/Stanchion</b>	
4	<b>Ladders on Column</b> The minimum design live load on metallic ladder shall be a single concentrated load of 100 kilograms. All rungs shall have a minimum diameter of 1.90 centimetres and minimum clear length of rungs shall be 40.6 centimetres. The distance between rungs shall not exceed 30.5 centimetres. Each ladder shall have maximum height of 9.0 metre. The ladder shall have proper fastenings for attaching it to a column using positive means such as bolt, weld or other type of fasteners.	
5	<b>Safety PPEs (Personal Protective Equipment)</b>	
5A	Industrial Safety Helmet (IS:2925-1984 marked)	
5B	Industrial Safety/Electrical Shoes (IS:15298-2002 marked)	
5C	Full Body Safety Harness (conforming IS:3521)	

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# ANNEXURE 'B'


## SAMPLE FORM OF INDEMNITY-CUM-UNDERTAKING AGREEMENT (FOR REMOVAL / DISPOSAL OF SCRAP / SURPLUS MATERIAL)

### FORM OF INDEMNITY-CUM-UNDERTAKING AGREEMENT WITH REGARD TO REMOVAL/DISPOSAL OF SCRAP/SURPLUS MATERIAL (TO BE EXECUTED ON STAMP PAPER OF APPROPRIATE VALUE)

#### INDEMNITY-CUM-UNDERTAKING AGREEMENT

THIS INDEMNITY-CUM-UNDERTAKING AGREEMENT executed this .....day of..... 20 ..... between .....(Name of Company) ..... a Company /Partnership Firm / Proprietary Concern incorporated under the laws of ..... having its Registered Office(s) at ..... (Office Address) ..... hereinafter called the 'Contractor' (which expression shall, unless excluded by or repugnant to the context, be deemed to mean and include its successors, administrators, executors and permitted assigns) AND M/s. .... having its registered office at ..... (hereinafter referred to as 'Employer'). 1. 'Employer' has awarded the 'Contractor', contract for execution of work ("Scope of Work") as mentioned in the contract agreement no. .... dated ....., entered into between 'Employer' and 'Contractor', relating to ..... (Name & Address of Project/Station) ..... (hereinafter called 'the Project'). 2. The 'Contractor' for the purpose of execution of its Scope of Work had from time to time procured and stored ..... (Details of Material) ..... at the Project Site. 3. After completion of the Scope of Work by 'Contractor', it has been identified that scrap ..... (Details of Scrap Material & its quantity) ..... and/or surplus ..... (Details of Surplus Material & its Quantity) ..... belonging to 'Contractor' is lying at the said Project Site. 4. Now, the scrap ..... (Details of Scrap Material & its Quantity) ..... and/or surplus ..... (Details of Surplus Material & its Quantity) ..... belonging to the 'Contractor', requires to be removed by 'Contractor' from the Project Site. NOW THEREFORE THIS INDEMNITY-CUM-UNDERTAKING AGREEMENT WITNESSETH AS UNDER:

1. That 'Contractor' by way of this Indemnity-cum-Undertaking Agreement requests 'Employer' to issue necessary exit gate pass(es) in favour of 'Contractor' for removal of scrap..... (Details of Scrap Material & its Quantity) ..... and/or surplus ..... (Details of Surplus Material & its Quantity) ..... belonging to 'Contractor', from the project.

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2. That as per Employer's procedure, 'Contractor' shall ensure loading of trucks for clearing of its scrap ..... (Details of Scrap Material & its Quantity) ..... and/or surplus ..... (Details of Surplus Material & its Quantity) ..... by itself, as aforesaid, under the supervision of CISF personnel.

3. That 'Contractor' in consideration of the premises above, for itself and its respective, executors, administrators and assigns, jointly and severally agree and undertake from time to time and at all times hereafter to indemnify 'Employer' and keep 'Employer' indemnified from and against all claims, demands, actions, liabilities and expenses which may be made or taken against or incurred by 'Employer' by reason of the issue of necessary gate pass(es) by 'Employer' and permitting 'Contractor' to remove scrap ..... (Details of Scrap Material & its Quantity) ..... and/or surplus ..... (Details of Surplus Material & its Quantity) ..... belonging to 'Contractor', from the project.

4. That 'Contractor' undertakes to indemnify and keep 'Employer' harmless from any act of omission or negligence on the part of the 'Contractor' in following the statutory requirements with regard to removal/disposal of scrap and surplus belonging to 'Contractor', from the Project Site aforesaid, by the 'Contractor'. Further, in case the laws require 'Employer' to take prior permission of the relevant Authorities before handing over the scrap and/or surplus to the 'Contractor', the same shall be obtained by the 'Contractor' on behalf of 'Employer'.

IN WITNESS WHEREOF, the 'Contractor' and the 'Employer', through their authorized representative, have executed these presents on the Day, Month and Year first mentioned above at ..... (Name of the Place) .....

For and on behalf of For and on behalf of

.....

(Contractor's Name)

.....

(Employer's Name)

Signature .....

Name .....

Designation of Authorised

Representative \* .....

Signature .....

Name .....

Designation of Authorised

Representative \* .....

WITNESS :

1. Signature .....

2. Name .....


3. Address .....

WITNESS :

1. Signature .....

2. Name .....

3. Address .....

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**Record of Revision/Amendment:**

Date	Type of Revision	Clause No.	Details of Revision	Signature

**Reference:-**

- i. CUSTOMER BIDDING DOCUMENT (Ref. No. DVC/C&M/ENGINEERING/KTPS(2X800 MW)/EPC/IPHB
- ii. NTPC SAFETY RULES FOR CONSTRUCTION AND ERECTION OF POWER PLANTS
- iii. HSEP-14 (Rev-I) BHEL HEALTH, SAFETY & ENVIRONMENT PLAN FOR SITE OPERATIONS BY SUBCONTRACTORS