

**Work Description: PACKAGE-A: Worker's Accommodation Sheds:**

Designing, manufacturing, supply, packing, loading, transportation, receipt at site, Unloading, Installation, Commissioning and handing over to site - removable/ re-erectable type pre-engineered, pre-fabricated 'Worker Accommodation Sheds' (approx. size 680 SQM each) along with shed for kitchen, dining and utensils washing area as per layout including civil, structural, architectural works, bore-wells & water treatment plant to fulfil the requirement of drinking water, water supply network, plumbing, sewage connections, sanitary work, power supply connection (to worker accommodation sheds, medical centre, bore wells pumps & water treatment plant from single point source provided by BHEL), distribution boards, external & internal electrification, lighting poles with lamps along the main and interconnecting road network, wiring & fittings, ceiling fans, illumination, painting, finishing work, metal bed with mattresses, almirahs / storage racks, paving, roads & drains, fencing for separation of the area etc. all complete as per drawings, technical specifications and as per instruction of BHEL Engineer in charge.

**PACKAGE-B: Medical Centre and Customer Office:**

Construction and Development of Medical Centre and Customer Office with parking shed (for approx. 10 cars) including civil, structural, architectural works, water supply network, plumbing, sewage connections & sanitary works, external & internal electrification, illumination, air conditioning and ventilation works, painting, finishing work, furniture & furnishing works, supply of medical equipment & instruments, paving, roads & drains etc. all complete as per drawings, technical specifications and as per instruction of BHEL Engineer in charge

at 1X800 MW DCRTPP, HPGCL, YAMUNA NAGAR, HARYANA

**A) Clause No. 15.0 (a) of NIT: The names and other details of Independent External Monitor (IEM) is revised as below:**

Sl. No.	Clause No.	Existing in NIT			Revised As		
		Sl. No.	IEM	Email	Sl. No.	IEM	Email
1	Sl. No. a) 15 "Integrity Pact (IP)"	1.	Shri Otem Dai, IAS (Retd.)	<a href="mailto:iem1@bhel.in">iem1@bhel.in</a>	1.	Shri Bishwamitra Pandey, IRAS (Retd.)	<a href="mailto:iem2@bhel.in">iem2@bhel.in</a>
		2.	Shri Bishwamitra Pandey, IRAS (Retd.)	<a href="mailto:iem2@bhel.in">iem2@bhel.in</a>	2.	Shri Mukesh Mittal, IRS (Retd.)	<a href="mailto:iem3@bhel.in">iem3@bhel.in</a>
		3.	Shri Mukesh Mittal, IRS (Retd.)	<a href="mailto:iem3@bhel.in">iem3@bhel.in</a>			

**B) Revised Form 15 (Rev 04) of Forms & Procedure booklet is attached herewith as Annexure-1 of this corrigendum.**

**Note:**

- 1) All other terms and conditions against this NIT shall remain unchanged.
- 2) This corrigendum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part- I).

for BHARAT HEAVY ELECTRICALS LTD  
Deputy Manager/ SCT- CPC

**ANNEXURE-1**  
**MONTHLY PERFORMANCE EVALUATION OF CONTRACTOR**

Form No. : F-15 (Rev 04)

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Project	Parameter for Measurement	Vendor	Package/Unit		Supporting Documents
SL	Classification	Max Score	Score Obtained	Measurement Key/ Scheduled Date	
<b>QUALITY</b>			<b>10</b>		
#1.01	Cumulative number of days in the month, the nominated Quality Officer or his authorised nominee was not available	QUALITY	1.5	Quality Officer or his authorised nominee should be available for all the days of working at site	Daily Log Book entry/ Incident Registers/ letter references
#1.02	Percentage submission of test certificates for batches of welding electrodes, cement, sand , aggregate, consumable, Paints etc as applicable for this month OR In case of MM & MH package, monthly checks for Storage/Preservation of material.	QUALITY	2	Submission of 100% Test certificates for materials as per FQP is mandatory. MM & MH package: Storage/Preservation as per manual/procedure.	Daily Log Book entry/ Incident Registers/ letter references
#1.03	Number of incidences of improper storage & preservation (not in accordance to the guidelines of BHEL MUs or approved FQP) of materials, consumables (viz. gases, welding electrodes & fluxes, fuel etc.) & bought-out items (paints, fasteners etc.) under the custody of the contractor	QUALITY	1.5	Total number of non-compliances	Daily Log Book entry/ Incident Registers/ letter references
#1.04	Delay in preparation & submission of signed protocols / log sheets / site register / NDT test reports as per approved FQP/ Qualified Welder List along with photocopies of Welder ID cards / Welder Performance Evaluation records etc in the month OR in case of MM / MH package reconciliation statement / verification report.	QUALITY	1.5	Within 2 days of measurements taken or within first 3 working days of next month, as advised by BHEL Engineer	Daily Log Book entry/ Incident Registers/ letter references
#1.05	Number of instances for Major equipment/product failure due to negligence/improper work/poor workmanship by contractor	QUALITY	1.5	No such event should happen	Daily Log Book entry/ Incident Registers/ letter references
#1.06	% failure against any test conducted during the month leading to rework/ loss of time/ money.	QUALITY	2	Failures due to reasons attributable to contractor should be as minimum as possible.	Test reports
<b>PERFORMANCE</b>			<b>70</b>		
#2.01	Cumulative number of days of delay in submission of signed Plan FOR THE MONTH supported by deployment plan of Major T&Ps and Manpower (as per Form F-14 all sections) alongwith all supporting documents viz drawings/ layout plans/ piping schedule and other relevant documents as applicable for individual packages.	PERFORMANCE	4	Number of days delayed from second working day of the month	Form 14/ letter references
#2.02	Cumulative number of days of delay in submission of signed Review FOR PREVIOUS MONTH supported by deployment plan of Major T&Ps and Manpower (as per Form F-14 all sections) alongwith all supporting documents viz drawings/ layout plans/ piping schedule and other relevant documents as applicable for individual packages.	PERFORMANCE	4	Number of days delayed from 7th day of the month	Form 14/ letter references
#2.03	Percentage of timely submission of Daily Reports for Progress of work, Resources, Consumables etc.	PERFORMANCE	1	Percentage of timely submission of daily reports/ Scheduled date is successive next day for each day	Daily Log Book entry/ Incident Registers/ letter references
#2.04	Percentage Shortfall attributable to contractor w.r.t. "Plan - Shortfall attributable to BHEL" for the month as per Form-14.	PERFORMANCE	40	As per Part-A of Form-14	Progress review formats
#2.05	% reduction of 'cumulative shortfall attributable(upto previous month) to contractor' during the month	PERFORMANCE	10	As per Part-A of Form-14: If B>0 then % reduction =[(B-E)*100]/ B If B <=0 then "Score Obtained"=10	Form-14

Name and Signature of BHEL Package In-Charge

Name and Signature of Contractor

**MONTHLY PERFORMANCE EVALUATION OF CONTRACTOR**

Form No. : F-15 (Rev 04)

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Project	Parameter for Measurement	Vendor	Package/Unit		Supporting Documents
SL	Classification	Max Score	Score Obtained	Measurement Key/ Scheduled Date	
#2.06	Number of days delayed in submission of Running bills with complete supporting documents (including updated reconciliation statement of BHEL issued material) for the month, alongwith FQP log sheets / protocols / HR documents / Monthly Progress Reports for the work executed during the month under measurement	PERFORMANCE	5	Number of days delayed / Scheduled date is 7th day of next month	Bill submission/ Letter references
#2.07	Number of times the Top Management of contractor did not respond to critical issues of site, for the month including call for meetings by BHEL/Customer and other interactions.	PERFORMANCE	2	Total number of instances	Letter references
#2.08	Number of cases observed for non-cooperation / creating work hinderances/ refusal for Rework/ Supplementary work required for completion of contractual scope/ non-acceptance of contractual conditions at site.	PERFORMANCE	1.5	Total number of such cases	Documentary proof of rejection / delay in initiating rework as per records.
#2.09	Number of cases noticed due to wastage/ damage of BHEL supplied material leading to damages/ losses to BHEL.	PERFORMANCE	1.5	Total number of such cases	Site observations/ Letters
#2.10	No of reported cases of non-Adherence / Compliance to online systems created by BHEL w.r.t Billing/ planning/ welding procedures/ quality/ HSE etc.	PERFORMANCE	1	Total number of non-compliances	System records/ letters
<b>RESOURCES</b>			6		
#3.01	Percentage of Manpower Deployed w.r.t. Plan for the month as per Form-14.	RESOURCES	3	As per Part-B2 of Form-14	Progress review formats/ Daily Log Book entry/Incident Registers/letter references
#3.02	Percentage of T&P Deployed w.r.t. Plan for the month as per Form-14.	RESOURCES	3	As per Part-B1 of Form-14	Progress review formats/ Daily Log Book entry/Incident Registers/letter references
<b>SITE INFRASTRUCTURE &amp; SERVICE</b>			2		
#4.01	Number of non-compliances during the month for Statutory requirements like validity of Labour Licence, Insurance Policy, Labour Insurance, PF, BOCW Compliance etc and any other applicable laws/ Regulation, Electrical Licence, T&P fitness certificate, Contractors' All Risk Policy etc as applicable	SITE INFRASTRUCTURE & SERVICE	1	Total number of non-compliances	Daily Log Book entry/ Incident Registers/ letter references
#4.02	Cumulative number of days in a month poor illumination is reported at storage area, erection area, pre-assembly area and other designated areas by BHEL site.	SITE INFRASTRUCTURE & SERVICE	0.5	Total number of non-compliances/random checks	Daily Log Book entry/ Incident Registers/ letter references
#4.03	Total number of instances in the month, House keeping NOT attended to inspite of instructions by BHEL i.e. removal / disposal of surplus earth / debris / scrap / unused / surplus cable drums / other electrical items / surplus steel items / packing materials, thrown out scrap like weld butts, cotton waste etc from the working area to identified locations	SITE INFRASTRUCTURE & SERVICE	0.5	Total number of non-compliances/random checks	Daily Log Book entry/ Incident Registers/ letter references
<b>SITE FINANCE</b>			2		
#5.01	Number of days delayed in making labour payments for the last month by 7th of this month	SITE FINANCE	1.5	Number of days delayed / Scheduled date is 7th day of next month	Online System/ Payment receipt

Name and Signature of BHEL Package In-Charge

Name and Signature of Contractor

**MONTHLY PERFORMANCE EVALUATION OF CONTRACTOR**

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Project	Parameter for Measurement	Vendor	Max Score	Score Obtained	Package/Unit	Supporting Documents
SL		Classification			Measurement Key/ Scheduled Date	
#5.02	Number of times the site operations were hampered for want of funds at the disposal of site-in-charge.	SITE FINANCE	0.5		Total number of non-compliances	Daily Log Book entry/Incident Registers/letter references
HSE			10			
#6.0	Performance against HSE Parameters (as per Annexure-AA of Form-15)	HSE	10			
		Total	100			

Less Deduction in Score Due to Fatal Accidents attributable to the Contractor @ 20 points/ accident	
Less Deduction in Score Due to Major Accidents (Permanent Disability or bodily injury by which person injured is prevented to resume to work within 48 hours or more after accident,	
Less Deduction in Score Due to Minor Accidents attributable to the contractor @ 2 points/ accident	
Less Deduction in Score Due to not Maintaining of Labour Colony (if applicable) as per BHEL HSE policy @3 points in a month on verification any day	
<b>Final Score</b>	

Performance Score Summary for the Month	Total Score	Score Obtained
QUALITY	10	
PERFORMANCE	70	
RESOURCES	6	
SITE INFRASTRUCTURE & SERVICE	2	
SITE FINANCE	2	
HSE & SA	10	
<b>Total</b>	<b>100</b>	

Name and Signature of BHEL Package In-Charge

Name and Signature of Contractor

## Monthly Safety Performance Evaluation of Contractor

SL	Parameter for Measurement	M/O	Mx	Supporting Documents
1a	Induction training for new workers conducted through audio-visual medium & documented?	M	2	Induction Training Records
1b	Tool box talk conducted regularly as per plan, and documented?	M	1	Toolbox Talk Records
1c	Contractor in charge and safety in charge attended safety meetings?	M	2	Minutes of Meeting
1d	Whether observations in safety meetings are complied before next meeting?	M	2	-do-
1e	Preparation and submission of Monthly HSE report within stipulated time	M	1	Report submission date
1f	Preparation and submission of Incident/near-miss report and RCA Report (as applicable) within stipulated time	M	1	Incident/ Near Miss Records
1g	Carrying out Inspections and submission of Inspection reports within stipulated time	M	1	Inspection Records
1h	Regular Job Specific Training ensured for High Risk Workers (through audio-visual medium) as per plan	M	1	Training & Attendance Records
2a	Whether the contractor is registered under BOCW		1	BOCW Registration Certificate
2b	Availability of Qualified safety officer (1 for every 500 labour)	M	2	Safety Officer qualification & experience records
2c	Availability of Qualified safety supervisor (1 for every 100 labour)		2	Safety Officer qualification & experience records
2d	All the workers are provided and using safety helmets and safety shoes/gum boots	M	2	PPE Issue Records, Inspection/ non-conformity records
2e	Housekeeping done on regular basis and scrap removal at site	M	1	Housekeeping records, Inspection/ non-conformity records
2f	Usage of Goggles/Face shields and Hand gloves for gas cutter and grinders		1	PPE Issue Records, Inspection/ non-conformity records
2g	Wall openings & floor openings are guarded?		1	Inspection/ non-conformity records
2h	Adequate illumination provided in all working area?		1	Inspection/ non-conformity records
2i	Safety posters, sign boards and emergency contact numbers in all prominent location are displayed?	M	1	Inspection/ non-conformity records
2j	Availability of automatic reverse horns, Main horn, hook latches for Vehicles, mobile cranes, Hydras		1	Inspection/ non-conformity records
2k	Ban of carrying mobile phones to work place is implemented for workers		1	Inspection/ non-conformity records
2l	Availability of Tags & Inspection Certificates for Cranes of all capacities		1	Master T&P List with internal & external test details
2l.2	Availability of Tags & Inspection Certificates for Winches of all capacities		1	Master T&P List with internal & external test details
2l.3	Availability of Tags & Inspection Certificates, color coding for Chain pulley blocks		1	Master T&P List with internal & external test details
2l.4	Availability of Tags & Inspection Certificates for Vehicles - Trailers, Dozers, Dumpers, Excavators. Mixers etc		1	Master T&P List with internal & external test details

SL	Parameter for Measurement	M/O	Mx	Supporting Documents
2l.5	Availability of Tags & Inspection Certificates for Welding machines, grinders, Drilling machines, etc		1	Master T&P List with internal & external test details
2l.6	Availability of Tags & Inspection Certificates, color coding for Wire rope slings etc		1	Master T&P List with internal & external test details
2l.7	Availability of Tags & Inspection Certificates for Batching plants		1	Master T&P List with internal & external test details
2m.1	Use of Lifting Permit as per requirement		1	Permit Records
2m.2	Use of Height Permit as per requirement		1	Permit Records
2m.3	Use of Hot Work Permit as per requirement		1	Permit Records
2m.4	Use of Excavation permit as per requirement		1	Permit Records
2m.5	Use of Confined space work permit as per requirement		1	Permit Records
2m.6	Use of Grating removal and safety net removal permit as per requirement		1	Permit Records
2m.7	Use of Lockout-Tagout permit as per requirement		1	Permit Records
2m.8	Use of Radiography permit as per requirement		1	Permit Records
2m.9	Use of Night/ Holiday Work Permit as per requirement		1	Permit Records
2m.10	Use of Any other Applicable Permit as per requirement		1	Permit Records
3a	Material safety data sheet (MSDS) available for all chemicals and displayed in usage and storage area?		1	Inspection/ non-conformity records
3b	Spillages of oil/concrete and other chemical is controlled and cleaned by proper method in case of spill?		1	Inspection/ non-conformity records
3c	Availability of adequate number of urinals in workplace and in elevations and maintained	M	1	
3d	Availability of rest rooms for workers at site or alternative arrangement	M	1	
3e	Availability of Drinking water facility at work spot		1	
3f	Hygienic Labour colony is provided for workers.		1	
4a	Is heavy/complex critical lifting permit obtained for heavy, complex materials before handling/erection activity?		1	Work Permit records
4b	Whether area below lifting activities barricaded		1	Inspection/ non-conformity records
4c	Availability of experienced rigging foreman		1	Experience details of rigging foreman
4d	Is agency is following proper storage and handling procedure as per manufacturer standard for all hazardous material?		1	Procedure for storage & handling
4e	Are oxygen and acetylene cylinders are transported to work place from storage area in trolleys		1	
5a	Whether all deep excavation has been protected by barrier		1	Inspection/ non-conformity records
5b	Sloping/benching & shoring provided for excavation as per requirement?		1	-do-
5c	Proper access and egress provided for excavations?		1	-do-
5d	Blasting is done in controlled manner?		2	-do-
6a	Whether Electrical booth is equipped with Co <sub>2</sub> fire extinguishers and fire buckets filled with sand?		2	Inspection/ non-conformity records
6b	Availability of Illumination lamp in electric booth?		1	-do-
6c	whether Caution Boards have been displayed?		1	-do-
6d	Usage of Metal Plug top for all hand power tools?		1	-do-

SL	Parameter for Measurement	M/O	Mx	Supporting Documents
6e	Usage of Insulated welding cables.		1	-do-
6f	Electrical Booth/Distribution Board to be covered by proper Canopy.		1	-do-
6g	Availability of functional & individual 30mA ELCB / RCCB and MCB for protection and conducting periodical check-up?		1	-do-
6h	Double earthing for panel boards and all machinery & proper earth pit with regular inspection available?		1	-do-
6i	Whether Electrician is qualified and experienced		1	Qualification & Experience records of electrician
6j	Availability and usage of Rubber hand gloves by electrician?		1	Inspection/ non-conformity records
7a	Whether Scaffolding pipes made with steel or aluminium, are being used and checked periodically by experienced/certified scaffolder?		2	Inspection/ non-conformity records
7b	8mm Stainless Steel wire rope with plastic cladding is provided for life line (Vertical / Horizontal) during height work?		2	-do-
7c	Availability of emergency lighting in case of power failure		1	-do-
7d	Whether all the openings are covered with Safety Nets made of fire proof Nylon?		1	-do-
7e	Whether MS pipe rails around staircases & platforms in usage are provided with top, middle rails and toe guard?		1	-do-
7f	Whether Ladder with vertical life line /Fall arrestor is available to climb?		1	-do-
7g	Whether all workers deployed for working at height have been issued height pass after undergoing vertigo test?		1	Height Pass records
7h	Whether all workers deployed for height work / climbing ladder are provided and using Double lanyard safety belt?		1	PPE Issue records, inspection/ non-conformity reports
7i	Is all hand tools/Small material used by height workers is tied firmly to prevent fall?		1	-do-
8a	Flash back arrestors for all gas cutting sets is available on Torch side and cylinder side		1	Inspection/ non-conformity records
8b	Oxygen/Acetylene/LPG cylinders not in use have caps in place and stored separately?		1	-do-
8c	Availability of Face screen, Hand gloves, and Apron, for welders		1	-do-
8d	Protection from falling hot molten metal during metal cutting / welding at height by providing GI sheet below the cutting area especially in fire prone areas		1	-do-
9a	Pre-employment medical check-up done for all workers and submitted?		1	Medical check records
9b	Availability of first aid centre, with MBBS doctor (Own or Sharing basis)	M	2	Attendance records
9c	Availability of Ambulance facility 24 hours (Own or sharing basis)	M	2	-do-
9d	Is First aid trained personnel are available and their names are displayed at site?	M	1	-do-
9e	Availability of Emergency vehicle at site		1	

SL	Parameter for Measurement	M/O	Mx	Supporting Documents
9f	Periodical medical check-up is conducted for all the workers and submitted?		1	Medical check records
9g	Availability of sufficient number of first aid box as per standard list and maintaining record		1	Inspection records
10a	Availability of Fire extinguishers, buckets at all vulnerable points		2	Fire extinguisher records
10b	Periodic fire mock drill conducted?		1	Fire, Mock drill records
10c	Are all flammable materials are stored separately?		1	
10d	Periodic grass cutting is done in material storage area?		1	
10e	Availability of 24V DC lighting in confined space work area		1	
10f	Availability of exhaust fan in confined space work area		1	

[Legend: **M**: Mandatory, **O**: Optional, **Mx**: Maximum Possible Score of the Parameter]

**NOTE:**

- Points other than mandatory can be excluded with appropriate justification (scope etc.) by BHEL. Score obtained in selected parameters divided by maximum possible score of selected parameters shall be multiplied by 10 for use in Sl. No. #6.0 as detailed on Page 4 of Form F15
- There shall be deduction of marks from overall score for Fatal/ Major/ Minor Accidents and for not maintaining labor colony as detailed on Page 4 of Form F15