



TENDER DOCUMENT  
For Works Contract

For Tender Enquiry No. : **FCX/TW/21/10**

For

**“(Epoxy Coating on Concrete Floor in Bay-9 under QIP Project)”**

**Contact Person:**

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Or

Name: P B S Ekka  
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**Tender Due Date : 10/09/2021 at 13 :15 Hrs  
Tender Opening Date :10/09/2021 at 14 :00 Hrs**

Rev .....	Short details of revision (In case of revision in tender document, otherwise NA)
Date: ....	

**Factory Civil Department  
BHEL, PO: BHEL, Jhansi 284120 (UP)**

## DETAILS OF TENDER DOCUMENT



# Bharat Heavy Electricals Limited, Jhansi

Department: Factory Civil

Tender Enquiry No: FCX/TW/21/10 date: - 25/08/2021

TD: 2021-22, Rev- 00

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BHEL JHANSI is in the process of finalizing the Works Contract for **Name of Work:- Epoxy Coating on Concrete Floor in Bay-9 under QIP Project**. The duly filled in Technical and Price / Rate bids (Annexure I and M, separately) along with the instructions to the tenders, Contractor's Obligations, General Terms and Conditions with the signature of the tender on all the pages and complete in all respects super scribed as "Quotation for **Tender No. FCX/TW/21/10 DATED- 25/08/2021**" should reach us in a sealed cover on or before **10/09/2021(13.15 hours)** through Registered / Speed post or the same may be dropped in the tender box available at the following address:

To  
Tender Box  
CISF Control Room/Office  
Administrative Building  
Bharat Heavy Electricals Limited  
Jhansi-284 120. UP

- Note:** 1) Dropping of tender in the Tender Box within schedule time and date is the responsibility of the bidder.
- 2) Technical bid and price bid should be submitted in separate sealed envelopes, in case the bids founds in one single envelope then the "bids" are liable to be rejected.

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## NOTICE FOR INVITING TENDER

S. No	Particulars	Details
1	Brief Description of work	<b>Name of Work: - Epoxy Coating on Concrete Floor in Bay-9 under QIP Project</b>
2	Tender Evaluation Criteria	<i>(QR as per Annexure C), Awarding on overall L1 basis</i>
3	Duration of Contract	<i>05 month</i>
4	Last date of Sale of the Tender	<i>Upto 15:00 hrs on 09/09/2021</i>
5	Last date of receipt of the Tender	<i>Upto 13:15 hrs on 10/09/2021</i>
6	Date of opening of Techno – Commercial Bid.	<i>14:00 hrs on 10/09/2021</i>
7	Address for submitting the Tender	<b>Tender Box Administrative Building gate</b>
8	Earnest Money Deposit * (EMD)	<i>Rs.31500.00</i>
9	Cost of Tender	<i>Nil</i>
10	Validity of Offer	<i>120 Days</i>
11	Security Deposit	<i>5 % of Contract value</i>

### **Note:**

The EMD may be accepted only in the following forms:

(i) Electronic Fund Transfer credited in BHEL account (before tender opening)

BHEL account details: Bank Name:- SBI; A/c NO. : - 10670828866; ifs Code:- SBIN0003807

A/c Holder Name:- BHARAT HEAVY ELECTRICALS LIMITED

The Tender cost may be accepted either by credited through **RTGS/NEFT/EFT/IMPS/ECS** or deposited by pos machine in cash section in BHEL ADM Building. The contractors may physically visit the work place before quoting their rates. For relevant details please visit our website

“[www.bhel.com](http://www.bhel.com)” & [www.bheljhs.co.in](http://www.bheljhs.co.in)

## Annexure B

### WORK SPECIFICATION/SCOPE OF WORK

#### DETAILS OF WORK

Sl.no.	Description of work
<b>Section "A"</b>	
1	Carriage of building rubbish
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).
4	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Foundations, footings, bases of columns, etc. for mass concrete
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.
6	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.
7	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.
8	Items covered in DSR-2016 but not covered above
<b>Section "B"</b>	
Sl.no.	Description of work
9	<b><u>Dry Area Surface preparation</u></b> : Removal of existing old coatings/paintings from concrete floor by using scarifying machines, sanders, scrubbing machines, wire brushes and other mechanical tools. Oil contaminated areas/oil soaked areas must be degreased with the help of universal degreaser or flame burning by mechanical, chemical or any other suitable means. Make entire area dust free and dry with the help of high capacity vacuum cleaner and hot air blowers. Then it should be washed thoroughly by solvent cleaning/detergent washing acid cleaning. This process must be repeated up to satisfaction of Engineer-in- charge to ensure permissible limit of moisture & oil content. <b>(The area under execution shall be barricaded and covered to protect outer area from dust)</b>

10	<b>Oil soaked area Surface preparation</b> : Removal of existing old coatings/paintings from concrete floor by using scarifying machines, sanders, scrubbing machines, wire brushes and other mechanical tools. Oil contaminated areas/oil soaked areas must be degreased with the help of universal degreaser or flame burning by mechanical, chemical or any other suitable means. Make entire area dust free and dry with the help of high capacity vacuum cleaner and hot air blowers. Then it should be washed thoroughly by solvent cleaning/detergent washing acid cleaning. This process must be repeated up to satisfaction of Engineer-in- charge to ensure permissible limit of moisture & oil content. (The area under execution shall be barricaded and covered to protect outer area from dust)
11	Repairing of cracks, erosion, crumbled joints, small size damages, pot holes, etc., in the concrete floor with fast setting epoxy resin based putty / mortar including cutting in regular shape etc. complete. Undulations, if any, found in the existing floor has to be removed followed by filling with epoxy screed to the required thickness to bring the level within tolerance limits.
12	Expansion joint edge must be checked and if required to be repaired up to correct width, clean all sorts of loose particles dust, oil, grease etc by means of vacuum cleaner, air blower and other mechanical tools. Then insert expanded polystyrene based backer rod (High density) of appropriate dimension i.e. around 30mm dia. for 25mm wide joint in the prepared expansion joint. Provide bond breaking tape on both sides of the joints and over the backer rod in the entire length of the joint. Apply compatible primer on both sides of expansion joint. Apply polysulphide based sealant in the joint after properly mixing the same with the help of mechanical stirrer and apply by means of polysulphide gun. After finishing the top surface, remove the tape all as per specification and direction. Expansion joint filling size 25mm width and 12.5 mm depth.
13	Providing and laying 5mm thick high density/highly abrasion resistant epoxy resin floor based screed flooring (compressive strength not less than 50N/sqmm at 7 days flexural strength not less than 25N/sqmm at 7 days inclusive of average 1.5mm thick topping of self levelling epoxy flooring of approved colour (compressive strength not less than 50N/sqmm at 7 days and flexural strength not less than 20N/sqmm at 7 days) after application of one or more coats of compatible and appropriate epoxy primer on the prepared surface.

## Annexure C

### QUALIFYING REQUIREMENTS

- 1) **Average Annual financial turnover** during the last 3 years, ending 31st March 2021 should be at least **Rs.4.73 Lakh** duly audited financial statement/balance sheet/certified by CA to be submitted as supporting documents. If all balance sheet/ financial statement are not available for three years than the average shall be calculated by dividing the sum of turnover of submitted balance sheet/certificate from CA/Financial statement by three.
- 2) **Experience** of having of having successfully completed similar works during last 7 years ending "on last day of previous month when tender is uploaded" should be either of the following:-
  - a. Three similar completed works each costing not less than the amount equal to **Rs. 6.30 Lakhs**.  
Or
  - b. Two similar completed works each costing not less than the amount equal to **Rs. 7.88 Lakhs**.  
Or
  - c. One similar completed work, each costing not less than the amount equal to **Rs. 12.60 Lakhs**.

**Similar work means: - Any type of chemical flooring work like epoxy, magoxy etc.**

Documentary proof (Execution Certificate/LOI/Work order) for the experience to be submitted along with Technical Bid. In case of experience in Private Sector, relevant TDS Certificate (TRACES Only) must be attached as evidence.

### Other Essential Documents-

- 3) Should have PAN/TAN number. Copy of PAN/TAN to be submitted.
- 4) GST Registration with valid documentary proof.
- 5) Should have independent ESI Code number.
- 6) Blank Price Bid (JS 472) as per annexure "G".
- 7) Undertaking duly signed, with seal and stamp of the Bidder, on Stamp Paper of Rs 100 /- as per annexure "V".
- 8) EMD.
- 9) The documents required for legal entities under whose name and style Contractor has participated in the tender are as follows:
  - (i) Partnership Firm: Partnership Deed registered at the office of Registrar of Firms.
  - (ii) Company: Certified copy Memorandum of Association, Article of Association and Incorporation Certificate.
  - (iii) Society: Registration certificate issued by Registrar of societies.

Sole Proprietor-ship Firm: Undertaking on oath (Rs. 100 stamp paper) that Proprietor is solely responsible for all rights and liabilities while working under the name and style of Sole Proprietorship firm namely (\_\_\_).



# Bharat Heavy Electricals Limited, Jhansi

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Annexure –D

## **GENERAL TERMS AND CONDITIONS OF ENQUIRY ( JHS 2055C R01)**

## **UPLOADED IN SPERATE FILE -(PAGES 01 TO 14)**

**(To be signed by contractor and submitted along with bid.)**



## SPECIAL CONDITIONS OF CONTRACT FOR WORK

1. Location of Site –Inside BHEL factory.
2. Time allowed for completion of work – **5 months.**
3. Defect Liability period – **2 year after** completion of W.O. date
4. Payment Terms – Measurement of completed work to be done monthly and bill to submitted by Contractor to department. Payment will be done as per GTC Clause (X) (6).
5. Penalty for delayed work – The contractor will have to complete work at site given to them within 5 Months of written instruction given by BHEL official. If contractor fails to ensure above condition, the penalty will be imposed on contractor as per GTC clause no.(X)-4
6. PVC & ORC - Not applicable
7. Taxes & Duties - The contractor shall submit their offer inclusive of all duties, royalty, entry tax etc. as per Govt. norms except GST. If GST is applicable for the work, the contractor shall claim GST extra as per actual over the quoted price of the work. However the contractor must make payment of GST before claiming the same from BHEL.
8. Award of work – The bidder must quote the total package price for the work and not the individual item rates in the price bid. The % allocation of each item has been specified and the individual item rates will be determined based on this % allocation from the total price quoted. The work will be awarded to overall lowest bidder who has submitted the lowest total price for the work
9. The above contract will be covered under the BHEL CONCILIATION SCHEME, 2018.
10. Work Inspection shall be done by BHEL representative and payment shall be made on the basis of measurement only as per unit given in schedule. The contractor or his supervisor /authorized person will maintain a register and record the work / measurement immediately and get verified the satisfactory completion of work by BHEL personnel. The contractor will be fully responsible for the preparation of bill and submission to Engineer-in-charge.
11. *The measurements of completed works and preparation of bill's related procedure will be govern by as per CPWD norms and guidelines. Contractor will comply with all CPWD's Norms, specifications, and guidelines related to work execution and billing.*
12. Final bill shall be prepared within 3 months after successful completion of work in the Performa prescribed for the purpose, based on the certificate issued by the Engineer that the entire work as stipulated in the tender Specifications has been completed in all respect to the entire satisfaction of BHEL. The Contractor shall give unqualified 'No claim' and 'no demand' certificate. The abstract of final quantities and financial values shall also be entered in the measurement book and signed by both the parties. The final bill shall be paid within a reasonable time after completion of the work. After the payment of final bill, only the guarantee obligation percentage value (Security deposit) shall remain unpaid, which will be released after completion of defect liability period on submission of no-dues certificate.
13. The BHEL General Conditions of contract shall form an integral part of this contract. (The BHEL General condition of contract may be seen in civil Office).
14. The Special Conditions of Contract (SCC) shall have overriding priority over General Conditions of Contract (GCC). Whenever there is any contradiction between the GCC and SCC, the SCC shall be treated as final.
15. The contractor shall take necessary precautions for the safety of his workmen and provide them with all safety equipment like gloves, gum-boots etc as per requirement. BHEL shall not be liable to pay any additional amount on account of any safety equipment / PPE.

16. The contractor shall take proper care to avoid any damage to BHEL property. If any damage does take place, the contractor will be fully responsible for the same. The decision of Engineer in charge in such case shall be final and binding on contractor.
17. The contractor will follow all safety rules required in connection with execution of such type of works.
18. The contractor will provide the all safety equipment i.e. safety shoes, safety belt, goggle and all other equipment which are direct related to work execution at own his cost.
19. The workers should be trained enough for the work.
20. No minor worker will be allowed to work.
21. The contractor shall be wholly responsible for the behavior of his workmen with the official staff.
22. All tools & tackles, ladder & machinery required for the work execution shall be arranged by contractor on his cost.
23. The contractor will be fully responsible to follow the instruction related to works, given and recorded by department in "Site order Book" and will be signature by him daily against recorded instructions in "Site Order Book" at department.
24. Water will be supplied free of cost at one point for drinking and construction.
25. Electric power at site will be provided free of cost for concrete work and lighting by BHEL at the written request of the contractor at one point subject to the observance of rules and regulations of Electric board / company free of cost. If it is observed that power is being wasted, BHEL shall have the right to recover cost of such consumption including arrears. Power will not be allowed for cooking and room (air) heating in winter season: For this purpose, on written application chargeable power can be allowed. The rates shall be the rates applicable for industrial consumption in U.P.
26. It is mandatory that consumable building material i.e. sand, stone aggregate, Tiles, paint and other required material to be use after prior approval of Engineer-in-charge.
27. Cement wastage @ 3% of total issued quantity shall be permissible. Beyond this recovery shall be made at double the issue rate for cement.
28. . If the total quantity of 90% empty cement bags is not returned by the contractor, the same will be recovered at the rate of Rs 3/- per bag from the bills.
29. Test certificate for consumed materials to be made available by the contractor as per direction of Engineer-in –charge (As per field quality plan.)
30. The quantity of individual item mentioned in BOQ may vary up to any extent as per requirement of site with restriction of awarded value of work of BHEL and the contractor shall not be liable for any claim of compensation on this account . Contractor will adhere to execution of item to complete the project & no claim related to qty. variation of items by contractor will be entertain.
31. For all natural minerals, if used in the work like sand, aggregate etc. royalty certificate (MM-11) must be submitted along with bills. If royalty certificate is not submitted the cost of royalty shall be deducted from contractors bill as per prevailing Govt. order including penalty as applicable
32. ACCOUNTING- (If applicable)
  - a) Proper method of accounting of steel, TOR steel, cement & scrap material shall be followed. The books of such accounting be offered for auditing by BHEL at pre-decided regular interval.
  - b) All debris and surplus materials shall be cleared from the site as and when directed by the Engineer-in-charge. Any temporary structure / stores made by the contractor for the work shall be demolished and site cleared before payment of final bill.
  - c) Structural steel wastage /scrap shall be permissible upto 2% of total quantity of issued quantity. The wastage /scrap steel must be return by contract for reconciliation of steel. Wastage scrap beyond 2% will deducted @ Rs.75 per kg.

### 33. RECOVERY FOR LAND & BUILDING RENT ISSUED TO CONTRACTOR ON DEMAND & AVILABILITY.

Sl.No.	Description	Recovery Rate
1	Open land for labour stay.(For temporary arrangements.)	Rs. 5.00/ sqm
2	Store building (if available) or land for store (for temporary arrangements).	Rs. 25.00/ sqm –plinth area
3.	Resident building –only X type or Type 2.	As per applicable BHEL RULES and guidelines.

### 34. Material issued to Contractor

S.No.	Particulars	Rate at which material will		Quantity	Place of issue
		Unit			
1.	Cement Bags (50 KG)	Bag	Free of cost	As per requirement	Factory Civil store
2	Structural steel & Tor Steel	KG	Free of cost	As per requirement	Factory Civil store

### 35. Field Quality Plan-for Epoxy work

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
1.0	PREPRATION OF SURFACE					
1.1	Dry area surface preparation	Visualize	100%	As per technical specification	SR	
1.2	Oil soaked area surface preparation	Visualize	100%	As per technical specification	SR	
2.0	EPOXY FLOORING					
2.1	SCREED					
2.1.1	Compressive Strength	Test	Per Lot	As per ASTM C-579/EN13892	MTC/TR	Basis will be Manufacturer
2.1.2	Flexural Strength	Test	Per Lot	BS-6319 Part 3	MTC/TR	Test Certificate
2.2	SELF LEVELLING TOP COAT					
2.2.1	Compressive Strength	Test	Per Lot	As per ASTM C-579/EN13892	MTC/TR	Basis will be Manufacturer Test Certificate
2.2.2	Flexural Strength	Test	Per Lot	BS-6319 Part 3	MTC/TR	
2.2.3	Weight Loss against Abrasion Resistance	Test	Per Lot	ASTM D4060	MTC/TR	
3.0	THICKNESS					

3.1	Thickness Measurement	M	Every 500 Sqm	As per technical specification	SR	
4.0	<b>VISUAL EXAMINATION</b>					
4.1	Colour	Visualize	100%	As per requirement	SR	
4.2	Straightness of Line/Markings	Visualize	100%	As per requirement	SR	
<p><b>Note:</b></p> <p>1. The tests/procedure mentioned above are only indicative and any other test required to maintain/improve/access the quality of work shall also form part of Field Quality Plan.</p> <p>2. One Sample will be sent for testing in an independent NABL accredited laboratory for testing during the work period. If need is felt, more sample can be sent to independent laboratory for testing, as per the discretion of Engineer-In-Charge.</p> <p>3. Testing over any item/material used in any item shall only be carried out if the executed value for the said item is more than Rs. 50,000.00</p>						

36. **Reverse Auction: BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."**

## Technical Bid Qualifying criteria & check list

S. No	Particulars Details	Pease tick (√)	Number / Details of enclosures
01	Name of the Firm (Document as per Sr. No. 2 of Qualifying Requirements)		
02	Name of the Proprietor/Partners		
03	Address and Contact Numbers		
04	Firm Registration Number if applicable (Copy of Certificate)		
05	Labour license Number (Copy of Certificate)		
06	ESI Code Number (Copy of Certificate)		
07	PF Code Number (Copy of certificate)		
08	PAN/TAN Number (Copy of PAN/TAN)		
09	GSTIN (PAN BASED) (Copy of certificate)		
10	Self-Declaration as per Annexure-V		
11	Balance Sheet along with Copy of Audited Financial annual statement by CA for last three financial years ending 31.03.19 as per tender		
12	Experience Certificate (Along with necessary enclosures as per tender to be submitted)		
13	No of Workers including supervisors on the rolls of the firm		
14	Committed Capacity against our tendered quantity in %		
15	Earnest Money Deposit a) DD No/MR No. & Date b) Drawn On (Bank)		
16	Any Other relevant Information		
17	Validity of Offer (At least 120 Days from the date of tender opening)		
18	Blank Price Bid Format		
19	E-Mail and Mobile Numbers		

*Note: Technical bid and price bid should be submitted in separate sealed envelopes. In case the bids are found in one single envelope then the "bids" are liable to be rejected.*

Signature with Name  
& Office Seal

## BLANK PRICE BID (JS 472)

a. Name of the firm :

Sl. no	Ref.	Description of work	Unit	% Allocation (Item-wise)	Qty.	Rate	Amount (Rs.)
<b>Section "A"</b>							
1	1.1.2/68	Carriage of building rubbish	Cum	0.39006070 0%	122.00	0.000	0.00
2	4.1.6/88	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	Cum	6.45341850 0%	49.00	0.000	0.00
3	5.1.2/97	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	Cum	6.83944290 0%	49.00	0.000	0.00
4	5.9.1/98	Centering and shuttering including strutting, propping etc. and removal of form for all heights : 5.9.1 Foundations, footings, bases of columns, etc. for mass concrete	Sqm	0.54706500 0%	73.00	0.000	0.00
5	5.22.6/100	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	0.87530980 0%	1960.00	0.000	0.00
6	11.4/191	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	7.75562080 0%	485.00	0.000	0.00
7	15.3/253	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	7.21101680 0%	122.00	0.000	0.00

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8	DSR-16	Items covered in DSR-2016 but not covered above	DSR-2016	0.20317860 0%	5000.00	0.00	0.00
<b>Sectional Total A</b>				30.275113 100%			<b>0.00</b>
<b>Section "B"</b>							
Sl. no	Ref.	Description of work	Unit	% Allocation (Item-wise)	Qty.	Rate	Amount (Rs.)
9	NS1	<b><u>Dry Area Surface preparation</u></b> : Removal of existing old coatings/paintings from concrete floor by using scarifying machines, sanders, scrubbing machines, wire brushes and other mechanical tools.Oil contaminated areas/oil soaked areas must be degreased with the help of universal degreaser or flame burning by mechanical, chemical or any other suitable means. Make entire area dust free and dry with the help of high capacity vacuum cleaner and hot air blowers. Then it should be washed thoroughly by solvent cleaning/detergent washing acid cleaning. This process must be repeated upto satisfaction of Engineer-in- charge to ensure permissible limit of moisture & oil content. <b>(The area under execution shall be baricaded and covered to protect outer area from dust)</b>	sqm	0.19708330 0%	485.00	0.000	0.00
10	NS2	<b><u>Oil soaked area Surface preparation</u></b> : Removal of existing old coatings/paintings from concrete floor by using scarifying machines, sanders, scrubbing machines, wire brushes and other mechanical tools.Oil contaminated areas/oil soaked areas must be degreased with the help of universal degreaser or flame burning by mechanical, chemical or	sqm	0.50347660 0%	826.00	0.000	0.00



		any other suitable means. Make entire area dust free and dry with the help of high capacity vacuum cleaner and hot air blowers. Then it should be washed thoroughly by solvent cleaning/detergent washing acid cleaning. This process must be repeated upto satisfaction of Engineer-in- charge to ensure permissible limit of moisture & oil content. (The area under execution shall be baricaded and covered to protect outer area from dust)					
11	NS3	Repairing of cracks, erosion, crumbled joints, small size damages, pot holes, etc., in the concrete floor with fast setting epoxy resin based putty / mortar including cutting in regular shape etc. complete. Undulations, if any, found in the existing floor has to be removed followed by filling with epoxy screed to the required thickness to bring the level within tolerance limits.	cum	9.69477660 0%	2.60	0.000	0.00
12	NS4	Expansion joint edge must be checked and if required to be repaired up to correct width, clean all sorts of loose particles dust, oil, grease etc by means of vacuum cleaner, air blower and other mechanical tools. Then insert expanded polystyrene based backer rod (High density) of appropriate dimension i.e. around 30mm dia. for 25mm wide joint in the prepared expansion joint. Provide bond breaking tape on both sides of the joints and over the backer rod in the entire length of the joint. Apply compatible primer on both sides of expansion joint. Apply polysulphide based sealant in the joint after properly mixing the same with the help of mechanical stirrer and apply by means of polysulphide gun. After finishing the top surface, remove the tape all as per specification and direction. Expansion joint filling size 25mm width and 12.5 mm depth.	metre	2.29783980 0%	174.00	0.000	0.00



# Bharat Heavy Electricals Limited, Jhansi

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13	NS5	Providing and laying 5mm thick high density/highly abrasion resistant epoxy resin floor based screed flooring (compressive strength not less than 50N/sqmm at 7 days flexural strength not less than 25N/sqmm at 7 days inclusive of average 1.5mm thick topping of self levelling epoxy flooring of approved colour (compressive strength not less than 50N/sqmm at 7 days and flexural strength not less than 20N/sqmm at 7 days) after application of one or more coats of compatible and appropriate epoxy primer on the prepared surface.	sqm	57.0317107 00%	1311.00	0.000	0.00
<b>Sectional Total B</b>				<b>69.7248870 00%</b>			<b>0.00</b>
<b>Total Amount To be quoted by Contractor (in figure)</b>							<b>XXXXXXXX</b>

Amount in Words:- .....XXXXXXXXXXXXX.....

**GST EXTRA AS APPLICABLE**

**NOTE – Contractor must not quote Amounts in this Blank Price Bid. This document must be submitted along with Techno-commercial bid.**



# Bharat Heavy Electricals Limited, Jhansi

Department: Factory Civil

Tender Enquiry No: FCX/TW/21/10 date: - 25/08/2021

TD: 2021-22, Rev- 00

## Annexures (I-IX)

**UPLOADED IN SPERATE FILE -PAGE NO 01 TO 14**

**(To be signed by contractor and submitted along with bid.)**



# Bharat Heavy Electricals Limited, Jhansi

Department: Factory Civil

Tender Enquiry No: FCX/TW/21/10 date: - 25/08/2021

TD: 2021-22, Rev- 00

**Format JS 146 - Price Bid Sheet (in a separate envelope)**

**UPLOADED IN SPERATE FILE (2 Page)**