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| Tender Reference Number | CF-TS-004-22-23  |
| Tender ID               | 2022_BHEL_13910_1 & BHEL NIT No.66009                                    |
| Name of Work            | <b><i>Renovation of PVC flooring at Clean room Bay 165 / Bldg 77</i></b> |
| Tender Clause           | Page 132 under Notes   |

***As per tender Document - page 132***

**Note:**

1. All Materials require prior approval of BHEL before starting the work
2. Manufacturer Test Certificate should be submitted for the materials used in the work.

***Shall be read as***

**Note:**

1. All Materials require prior approval of BHEL before starting the work
2. Manufacturer Test Certificate should be submitted for the materials used in the work.
3. The thickness of PVC Full sheet mentioned in Item no 1, is 2 mm thick.
4. **CPWD approved brands shall also be considered based on written requests from contractor. However, the decision of engineer-in-charge is final. For epoxy the following brands are recommended** BASF, CIPY, FOSROC, SIKA, PIDLITE, STP, HUNTSMAN, BOSTIK, CLEAN TECH, AUTOMOTIVE SOLUTIONS, MYK ARMENT.
5. The procedures mentioned in the BOQ with special notes are given below.

**I) Procedure-I**

Specification for 3mm EPOXY Coating on Floor

Providing Epoxy Coating on concrete shop floor (approx 10 months old), to provide a Dust free flooring, subject to everyday cleaning and swabbing, with moderate movement of vehicles for shop floor handling. The required specification is as per the following steps.

- a) Surface preparation of the shop floor by thorough cleaning of surface to free dust, dirt, oil and foreign material from floor, preparation of floor surface for epoxy primer using machine grinding.
- b) Any cracks on floor more than 3mm to be grove cut and filled with epoxy and other smaller cracks to be dressed with epoxy.

- c) The floor is then to be coated with two layers of suitable high strength bond primer of suitable thickness (as per manufacturer recommendations) and suitable for the concrete floor.
- d) Application of Epoxy Self levelling screed to a thickness of 2mm and spreading to get uniform thickness.
- e) Sand grinding, wherever required as per manufacturer recommendation, to prepare the surface for proper bonding
- f) Application of one layer of high strength bond primer (Thickness as per manufacturer recommendations)
- g) Application of epoxy self-levelling topping with desired colour for a thickness of 1mm.

## **II) Procedure - II**

### **Specification for 0.5 mm EPOXY Paint over Cable Trench Cover Slab**

Providing Epoxy Coating on cable trench cover slab, to provide a Dust free flooring, subject to everyday cleaning and swabbing, with moderate movement of vehicles for shop floor handling. The required specification is as per the following steps.

- a) Surface preparation of the top surface, by thorough cleaning of surface to free dust, dirt, oil and foreign material, preparation for epoxy primer using machine grinding.
- b) The surface is then to be coated with suitable high strength bond primer of suitable thickness (as per manufacturer recommendations)
- c) Application of epoxy paint of desired colour for a thickness of 0.5 mm. Pencil coping of 25mm along the floor and wall joint as per specification given in Procedure III with special note inclusive and completion of work to the fullest satisfaction of Engineer-in-charge.

## **III) Procedure - III**

### **Specification for 25mm Pencil coping along the wall**

Providing Pencil coping of 25mm along the wall at floor and wall joint location to provide a Dust free flooring, subject to everyday cleaning and swabbing. The required specification is as per the following steps.

- a) Surface preparation of the top surface, by thorough cleaning of surface to free dust, dirt, oil and foreign material, preparation for epoxy primer using machine grinding.
- b) The coping should be made to match the 3mm Epoxy flooring and as per the manufacturers recommended procedure.

## **IV) Special Note:**

- a. The epoxy is to be prepared and mixed to requirement as per the procedure suggested by the manufacturer.

- b. The epoxy to be used is to be of the following make :-BASF, CIPY, FOSROC, SIKA, PIDLITE, STP, HUNTSMAN, BOSTIK, CLEAN TECH, AUTOMOTIVE SOLUTIONS, MYK ARMEN
- c. The epoxy flooring is to be applied on concrete surface
- d. The layer should be Seamless, Joint less and monolithic.
- e. The colour of epoxy will be decided at the time of contract. The colour should be added to epoxy as per laying requirement so as to achieve final desired colour.
- f. The surface made with epoxy should have excellent physical and chemical resistant properties.
- g. Any curing required during laying and after finishing should be carried out by the contractor.
- h. The corner near wall and machinery should be suitably pencil coped for 25mm and the open edges should be suitably sloped for smooth finish with existing floor.
- i. The payment will be made as per the actual units of work done.
- j. The vendor should indicate the Brand name of Epoxy that they will be using and should provide application method during tendering stage itself.
- k. The vendors are advised to visit the site and understand the site and working conditions before submitting their quotation. When a vendor submits his tender, it is assumed that he is aware of all the site conditions.
- l. The vendors are required to quote common single % rate for the entire package. All items will be awarded as a package and the Technically qualified vendor Quoting the least value for the total package will be chosen for award of work.

## Building 77: Floor Renovation Plan

