CORRIGENDUM III

 NAME OF THE WORK. Maintenance Recoating of Howrah Bridge (Rabindra Setu) with MCU Coatings System

NIT NO.:_ SMPK/KDS/CIV/T/2540/72 dt. 15.02.2021 CORRIGENDUM I: SMPK/KDS/CIV/T/2540/365 dt. 10.03.2021 CORRIGENDUM II: SMPK/KDS/CIV/T/2540/480 dt. 12.04.2021 In continuation to the above mentioned NIT No. Following is further notified.

| a single one coat to achieve a total DFT of 75 |
|--|
| microns, allowing it to cure within 6-8 hours. |
| The Parameters and properties of the primer |
| coat, shall be as follows: |

- 1. Type of binder/resin : Moisture curing, aromatic poly-isocyanate pre-polymers.
- 2. Type of pigment : Iron oxides, magnesium silicates, modified phosphate anticorrosive
- 3. Colour: Oxide red.
- 4. Density: $1,33 \pm 0,05 \text{ g/cm}^3$
- 5. Solids content: $66 \pm 2\%$ (in volume) 77 $\pm 2\%$ (in weight)
- 6. Viscosity: 87 ± 5 KU
- 7. VOC: < 300 g/L (non diluted)
- 8. Elasticity and Hardness

Ericsen (ISO 1520): 5

Direct Impact (ISO 6272): 130 kgcm Indirect Impact (ISO 6272): 40 kgcm

- 9. Salt spray test: (ISO 7253) :- No Corrosion at scratch- + 10,000 hours (complete system).
- 10. Adhesion: (ISO 2409) =.> 15 MPa.- (GT-0)
- 11. Abrasion resistance : (ASTM-D4541)= 1000 cycles/Kg:= 125 mg loss.
- 12. Heat Resistance:= up to 150 degrees C (cured coating)
- 13. Application Relative Humidity= up to 98 % RH.
- 14. Chemical Resistance (ISO 2812-1):= Unchanged- No Change in colour of gloss, after immersion in 10% NAOH & 10% H2SO4

45 Item No. 3 of BOQ in the NIT

UV Application of and weather resistant protective Top /Finish Coat:-Application of single component, moisture cure urethane and Aluminum based, corrosion, UV and weather resistant, Finish/Top coat by spray/ Brush/ Roller evenly @150 micron DFT in 2 coats of 75 microns DFT each coat by on touch dry and cure of the CFRP Composite Structural Strengthening System. The Top coat/Finish Coat shall match the following Product **Specifications**

Product Specifications of Top coat/Finish Coat:

- 1. Resin type: Aliphatic urethane
- 2. Pigment type: Aluminum flake
- 3. Sheen: Semi-gloss4. Colours: Aluminum
- 5. Volume solids: $63.0\% \pm 3.0$
- 6. VOC: 205 g/L (1.92 lb/gal)

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OR

B) APPLICATION OF UV-CHEMICAL& WEATHER RESISTANTANTI CORROSIVE TOP COAT/FINISH COAT:

Application of Top coat of Single pack Moisture Cured Polyurethane over primer, after the specified re- coat interval of 8 hours. The top

coat shall be applied in single coat to achieve a DFT of min. 50 microns; having Type of binder: -Moisture curing aliphatic polyisocyanate pre-polymers, Type of pigment:- Light-stable organic and/or inorganic pigments, depending on the colour, having High gloss (minimum 90%). 60°Gn (Gardn) The parameters & properties of the top coat shall be as follows: 1. Density: 1.05 – 1.4 g/ml 2. Volume Solids :- 58 - 65% 3. Sheen: Full Gloss 4. VOC value: 200 g/L 5. Viscosity: 80 (±10) sec CF4 6. Gloss: >90 7. – Colours: All required RAL colours available. 8. UV & Chemical Resistance: (ISO 2812-1):= Unchanged- No Change in colour of gloss, after immersion in 10% NAOH & 10% H2SO4

All other terms and conditions remain unchanged.

Sd/Dy. Chief Engineer-III
For Chief Engineer

SYAMA PRASAD MOOKERJEE PORT, KOLKATA