

## Specification for the work of:-

**Name of work: - Bhusawal(CZ) – Proposal for renovation / repairs of officer colony swimming pool work. (ZBB-25-26)**

### **NS-1- Quartz sand media**

Quartz filter Media should confirm **IS:8419 (Part-1)**

**Mesh Size:** 16/32, 8/16 and 4/8.

### **NS-1:- Re-circulating Pumps for main filtration- 10 HP pump (1W+1W)**

#### **Pump:**

Pump must design to provide maximum performance at a realistic cost with SS shaft and prefilter basket.

It must come with a combination of durability and corrosion-proof materials & can be used for recycling and filtering water for medium and commercial swimming pools.

The recirculation should Impeller in HT200 Shaft in Stainless Steel AISI 316 Mechanical Seal in Graphite/ Ceramic Class F insulation IP55 protection.

Head of Pump 94 m3/hrs.@18 meter.

**Power:** 7.5 Kw/10 Hp

#### **NS-3:- 5 way butterfly valve battery**

Butterfly valves are made of PVC with a manual hydraulic drive & flange connections for best filtration standards. It should substitute traditional centre butterfly valves for water supply and drainage systems and provide improved performance against corrosion & wearing & can be used under high pressure and high-temperature condition. Butterfly valve should be- Quick on-off operation in 90o with simple & compact construction and light in weight. The double eccentric structure reduces the friction of the sealing ring, providing the valve with a long service life. The valve can be used for various mediums and temperatures by replacing materials of the disc sealing ring "O" ring, disc and shaft. Valve having 150 mm in size of PVC material along with pipe and test certificate.

Pipe should be UPVC

### **NS-4:- Ladders (a) 4 step SS 304 Ladder, Skimmer Type-42 mm (b) 3 step SS 304 Ladder, Skimmer Type-40 mm**

Swimming pool ladders have high-quality stainless-steel ladders with a perfect curve design and stainless-steel thread. The surface is anti-slippery having no minor faults with sharp edge cape & fixed equipment.

Size: 42mm Dia pipe. MOC: SS 304. Lab Tested

### **NS-5:- 54 w LED light with driver (Warm white)- Body and rim made of white ABS with 2 meter cable. The light fixture is design with additional cooling vents. SS screws in the face plate to hold the fixture firmly in the niche there preventing the fixture from coming loose.**

Light Source: LED 54-Watt Input Voltage: 12 V DC

Luminous Flux: 4000 LM IP

Rating: 68

Water Temperature: 20° – 40°

Light Angle (Lens): 120°

**Colors:** RGB, Warm, White & Blue The light and constant voltage operation. It is ideal for underwater lighting

### **NS-6:- Overflow Gratings in Mets- Made in white, ABS material running length 1 Mtr each, Width: 300mm, Height: 25mm**

Made in white in ABS material 300 mm 3 Pin 25 mm height of 1 meter each.

**NS-7:- Providing and fixing** Glass mosaic tiles on finished plain wall surface of size 73mm x 75 mm x 4mm in all colour, design, fixing in customize design as per direction of Engineer-in-charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 Kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-charge.

**NS-8:- Wire 12 sq.mm**

Two Core 12 sq.mm copper

**NS-9:- Total piping, fittings, unions, valves, NRVs and commissioning Erectioning of pumps and pressure filter.**

All piping is of 150 mm and 100 mm along with all accessories like valves, flanges fitting etc. commissioning and erection.

**Special condition:-**


- 1) The tender participant should visit the actual work site of swimming pool and should attached the visit report duly signature of authorized representative of railway.
- 2) The tender participant had experience of same work in government as it is specialized and critical work.
- 3) The tender participant should study the work of swimming pool and the pumping arrangement should be a positive suction type to avoid priming of pump and hence low maintenance.
- 4) Pressure filter arrangement to be maintain in proper working to get clear water in pool.
- 5) The schedule item should be supplied after getting the approval of authorized representative of railway.
- 6) The tender participant should be technical sound to overcome any difficulty with the representative of railway.
- 7) Tenderer should maintain all equipment in working order and operate pool cleanliness including day to day cleaning for one year free maintenance period.
- 8) Admixture used for waterproofing shall be of Sika or any similar Railway-approved brand.
- 9) Pumps and motors used shall be of reputed make and approved quality standards.

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