

SCOPE OF WORK

The Consignee for the Work of "Cleaning of Electric Locomotive Body at SRC Trip Shed, Cab & Lookout Glass Cleaning of Electric Locomotive, Pit Cleaning at SRC Trip Shed & General Cleaning at SRC Trip Shed, SRC Crew Lobby for two Years i.e 730 Days" is **SSE/TRS/PP/SRC**.

Schedule 1: Cost for Full Body Cleaning (Including CRO Cleaning) Of Electric Locomotives at SRC Trip Shed along with cleaning materials for two years including GST @18%.

Approx. 300 nos. of locomotives per month which is 7200 nos. of Locomotives for 02 Years/24 months/730 days (i.e. approx. 10 nos. of Locomotives per day) as instructed by the **Consignee/ Railway Authority** are to be cleaned (i.e. Full Body Cleaning including CRO Cleaning) as per availability of locomotives at Trip Shed SRC.

The Rate should be quoted per Locomotive which must include the following works:-

- Scrubbing the surface of the locomotive is to be done by sponge or similar type of materials such as scrub pad with a soap solution which will cause no damage to the paint on locomotive surface.
- After 1st round of cleaning by soap water/detergent, the outside surface of locomotives should be cleaned by fresh clean water.
- The CBC or buffer portion where grease is not applied, cattle guard, the bogie frame sideways that is exposed to outside view should be cleaned properly. In case of CRO (Cattle Run-Over) the flesh, meat & other sediments are accumulated in cattle guard or bogie frame which needs to be cleaned thoroughly.
- Any necessary arrangement of scaffolding or ladder to approach different parts or surface of the locomotive shall be done by the contractor.
- Minimum approx quantity of cleaning Material to be provided by the contractor as follows

Sl No	Item	Quantity Required Per Month	Unit
1	High Foam Liquid Soap	24	Litre
2	Bleaching Powder	16	Kg

N.B: The above supply of cleaning materials should be of good quality and contractor have to stock the materials well in advance before starting of each month which shall be verified by the consignee. The other cleaning materials, if required has to be provided by the contractor as instructed by the consignee.

Schedule 2: Cost For Only Cab & Lookout Glass Cleaning Of Both Side Cabs Of Electric Locomotives At SRC Trip Shed along with cleaning materials for two years including GST @18%.

Approx **674** nos. of Locomotives per month which is **16176** Locomotives for 02 Years/24 months/730 days as instructed by the **Consignee/ Railway Authority** are to be cleaned (i.e. Both Cab & Lookout Glass Cleaning of both side Cabs) as per availability of Locomotives at Trip Shed SRC

The Rate should be quoted per Locomotive which must include Cab and Lookout Glass Cleaning (from inside & outside of glass) of both the cabs in Electric Locomotives including Head Lights, Flasher Lights, Driving Desk and Driving Cab which needs to be cleaned by using cotton duster.

Minimum approx quantity of cleaning Material to be provided by the contractor as follows:

Sl No	Item	Quantity Required Per Month	Unit
1	High Foam Liquid Soap	15	Litre
2	Degreasing Compound	10	Kg

Consignee

वरिष्ठ अनुभाग अभियन्ता (क. च. एस)
Sr. Section Engineer (TRS)
द० पू० रेलवे, सांतरगाछि
S. E. Railway, Santragachi

Sr.DEE/OP/KGP

वरिष्ठ मंडल विद्युत इंजीनियर/परिचालन
Sr. Divisional Electrical Engineer (Operation)
द० पू० रेलवे, खड़गपुर
S.E. Railway, Kharagpur

N.B: The above supply of cleaning materials should be of good quality and contractor have to stock the materials well in advance before starting of each month which shall be verified by the consignee . The other cleaning materials, if required has to be provided by the contractor as instructed by the consignee.

Schedule 3 : Cost For Pit & Shed Floor (Including Inspection Pit) Cleaning At Trip Shed SRC Along With Cleaning Materials for two years Including GST @18%

The Rate should be quoted per Sq. Feet mentioned in the table below however the quoted rate must also include the following works:-

- Periodical scrapping of Inspection Pit and Shed floor for removing any scales due to accumulation of oil mud, cardium compound oil grease etc. by using cleaning chemical agents like Oxalic Acid, Bleaching Powder etc. daily twice or as and when required of the entire pit area. Total area of both pits including floor and side walls is approximately about **3476 Sq. Feet** and the shed floor area is approximately about **7184 Sq. Feet**.
- Scrapping of all dock pits walls & pit floor area including periodical cleaning of main drains, outlet drains, both pit connecting drains & other drains by using cleaning chemical agents as and when required of entire area.
- Drainage of accumulated water from inspection pit through water pump during monsoon season or as and when instructed by Consignee. **(NB: - Two Waterpumps of each of 2 HP rating (Kirloskar/CGL make) along with pipe and other accessories to be arranged by the contractor at his own cost to drain out the water as and when instructed by consignee).**

SI No	Description (Sq Feet)	Frequency of Cleaning
1	Total Floor area of 2 (Two) Pits-1264 Sq. Feet, Total area of Vertical Walls of 2 (Two) Pits- 2212 Sq. Feet. So, total area of both pits including floor & side walls- 3476 Sq. Feet	Twice Daily
2	Shed Floor Area= 7184 Sq. Feet	Twice Daily
	Total Pit and Shed Floor Area= (3476+7184) Sq. Feet = 10,660 Sq Feet	

Therefore, Total Area of Pit and Shed Floor to be cleaned at Trip Shed SRC during the contract period i.e 730 Days = 10,660 Sq Feet X 2 X 730 = **1,55,63,600 Sq. Feet**

Minimum approx quantity of cleaning Material to be provided by the contractor as follows:

SI No	Item	Quantity Required Per Month	Unit
1	Acid Oxalic	20	Kg
2	Bleaching Powder	30	Kg

N.B: The above supply of cleaning materials should be of good quality and contractor have to stock the materials well in advance before starting of each month which shall be verified by the consignee . The other cleaning materials, if required has to be provided by the contractor as instructed by the consignee.

Consignee

वरिष्ठ अनुभाग अभियन्ता (क. च. एस)
Sr. Section Engineer (TRS)
 ६० पू० रेलवे, सांतरगाछी
S. E. Railway, Santragachi

Sr.DEE/OP/KGP

वरिष्ठ मंडल विद्युत इंजीनियर/परिचालन
Sr. Divisional Electrical Engineer (Operation)
 ६० पू० रेलवे, खड़गपुर
S.E. Railway, Kharagpur

Schedule 4: Cost For General Cleaning Work At SRC Trip Shed & SRC Crew Lobby along with cleaning materials for two years including GST @18%.

The Rate should be quoted per Sq. Feet mentioned in the table below however the quoted rate must also include the following works: -

- Daily sweeping of whole Office Premises of SRC Trip Shed & SRC Crew Lobby (twice/thrice daily) as instructed by consignee by Broom Gua or as and when required. Using soap water or phenyl water is essential for cleaning.
- Bathroom & Toilets are being used by Staff 24*7 & hence should be cleaned thoroughly thrice a day or as and when required using cleaning agents to maintain hygiene standards & avoid foul smells. If required Napthalene Balls should be used necessarily in urinal pans & wash basins.
- The drains are to be washed with Bleaching Powder & dis-insecticide fluid to avoid germs.
- Periodical de-weeding of grasses and bushes from uncovered area of the entire shed & yard should be done once in a month but should be completed within 04 days from the starting date.
- Lifting & Dumping of garbage in a common dumping place outside yards & littering them in a pre-decided place as and when required.

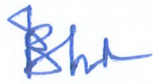
Approximately 69,66,940 Sq.Ft area to be cleaned for 730 days/24 Months for general cleaning work at SRC Trip Shed and SRC Crew Lobby.

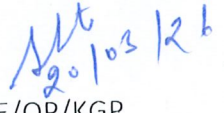
The dimension and frequency of Cleaning is tabulated below:

SRC Trip Shed

SI No	Description	Dimension	Frequency
1	Store Room	20'x 17' = 340 Sq. Feet	Daily Twice
2	Supervisor & Staff Waiting Room	26'x 17' = 442 Sq. Feet	Daily Thrice
3	In-Charge & Office Room	26'x 17' = 442 Sq. Feet	Daily Twice
4	Tools/Locker Room	12'x 14' = 168 Sq. Feet	Daily Twice
5	Cycle Stand	100'x 6' = 600 Sq. Feet	Daily Twice
6	Ladies & Gents Washroom	20'x 17' = 340 Sq. Feet	Daily Thrice
7	Garden at Backside of office premises	100'x13' = 1300 Sq.Feet	Once in a Month
8	Outside Floor Area (Yard Master Side)	45'x4' = 180 Sq.Feet	Once in a Month
9	Outside Shed KGP End	1200 Sq.Feet	Once in a Month
10	Outside Shed Howrah End	7350 Sq. Feet	Once in a Month

Consignee


वरिष्ठ अनुभाग अभियन्ता (क. च. एस)
Sr. Section Engineer (TRS)
द० पू० रेलवे, सांतरागाछि
S. E. Railway, Santargachi


Sr.DEE/OP/KGP

मंडल विद्युत इंजीनियर / परिचालन
Divisional Electrical Engineer (Operation)
द० पू० रेलवे, खड़गपुर
S. E. Railway., Kharagpur

SRC Crew Lobby

Sl No	Description	Dimension	Frequency
1	CC Office Area	16'x 22' = 352 Sq. Feet	Daily Thrice
2	Crew Waiting Area	16'x 22' = 352 Sq. Feet	Daily Thrice
3	Lobby Toilet Area	16'x 6' = 96 Sq. Feet	Daily Thrice
4	CC/IC Office	12'x 12' = 144 Sq. Feet	Daily Twice
5	CC/IC Store	12'x 5' = 60 Sq. Feet	Daily Twice
6	Crew Counselling Room	30'x16' = 480 Sq. Feet	Daily Twice

Minimum approx quantity of cleaning Material to be provided by the contractor as follows:

Sl No	Item	Quantity Required Per Month/Annum	Unit
1	Phenyl	60 L per month	Litre
2	Toilet Cleaner	10L per month	Litre
3	Gum Boot	8 Pairs per Annum	Pairs
4	Industrial Gloves	8 Pairs per Annum	Pairs
5	Duster Cotton	30 Number per month	Number
6	Carriage Washing Brush with Handle 235 mm X 75 mm	10 Number per month	Number
7	Banister Brushes size 16"	4 Number per month	Number
8	Broom Gua	8 Number per month	Number
9	Scrubbing Brush 16"	4 Number per month	Number
10	Scraper	3 Number per Annum	Number
11	Napthalene Balls	1 Kg per Annum	Kg

N.B: The above supply of cleaning materials should be of good quality and contractor have to stock the materials well in advance before starting of each month which shall be verified by the consignee. The other cleaning materials, if required has to be provided by the contractor as instructed by the consignee.

Consignee

वरिष्ठ अनुभाग अभियन्ता (क. च. एस)
Sr. Section Engineer (TRS)
द० पू० रेलवे, सांतरागाछि
S. E. Railway, Santragachi

Sr.DEE/OP/KGP

मंडल विद्युत इंजीनियर / परियोजना
Divisional Electrical Engineer (Operation)
द० पू० रेलवे, खरगपुर
S. E. Railway., Kharagpur