

ODISHA CONSTRUCTION CORPORATION LIMITED
(A GOVERNMENT OF ODISHA UNDER TAKING)
REGIONAL WORKSHOP,
JEYPORE, KORAPUT-764002 (ODISHA)
TENDER CALL NOTICE NO. OCCL/RWS/ 01 / 2021-22 Dated:09.06.2021
BILL OF QUANTITIES & PRICE SCHEDULE

Nane of the work:- "Repair, Overhauling, Dismantling & Re-Erection after repairs including Painting ,alignment, testing and commissioning of Scouring Sluice Gates, Radial Gates, Head Regulator Gates & their Hoisting Arrangements, (operated electrically through Rope Drum Hoisting System), Walkway of Hati Barrage of UIIP at Mangalpur"

Sl. No.	Description of work	Qty	Unit	Rate in Rs. In Figures	Rate in Rs. InWords	Amount in Rs.
1	Scouring sluice gate & their hoisting arrangement					
A	Dismantling and complete Overhauling of Scouring Sluice Gates of Size 5000x6000 mm using handling equipments such as chain pulley blocks, Jhullas/Hydra Crane, Grinding Tools etc., with cost of labour, hire charges of handling equipment, tools & tackles, consumables including dismantling of all old Rubber Seals but excluding all required materials , Bearings, Rubber Seals,fasteners, lubricants ,welding electrodes, steel etc will be supplied by OCCL including Wheels and Rubber Seals Change, Top Seal Seat Grinding etc. , 50% Gate wheel bearings & dismantling of excess concrete and lowering of Gates to their position after maintenance in all respects including testing and commissioning as per approved drawings & direction of the Engineer-in-Charge.	2	Sets			
B	Dismantling of Hoist Bridges,if required and complete overhauling of Hoists system of 38T Capacity using handling equipments such as chain pulley blocks, Jhullas/Hydra Crane, etc., with cost of labour, hire charges of handling equipment, tools & tackles, consumables including dismantling of old wire ropes, EM Brake, Position Indicators but excluding all required materials like Wire Ropes, Housing Bearings, fasteners, EM Brakes, lubricants ,welding electrodes, steel etc will be supplied by OCCL overhauling & replacement of Worm Reducers, replacement of Socketed Wire Ropes, 50% Housing beaings Change, overhauling of postion indicators, hoist gear trains, replacement of EM Brakes, Greasing all Gear Trains including alignment of all gears, pinions, first shaft, second shaft, line shaft, bearing, housing maintenance complete in all respects including testing and commissioning of Hoists as per approved drawings & direction of the Engineer-in-Charge.	4	Sets			
C	SURFACE PREPARATION AND PAINTING OF SCOURING SLUICE GATES AND THEIR HOISTING SYSTEM WITH LABOUR,MACHINERY/EQUIPMENTS ETC.					
i	Painting of 4(Four) sets scouring sluice gate after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994. After blast cleaning, the surface should be cleaned from loose dust and debris preferably by air blast with help of blower. Over the prepared surfaces two coats of zinc rich primer should be applied to give a total dry film thickness of 70 ± 5 microns followed by two coats of solvent less coal tar epoxy paint applied at an interval of 24 hours. Each coat should give a minimum dry film thickness of 150±5 microns. The total dry film thickness of all the coats including primer coating should not less than 350 ±5 microns as per IS: 14177:1994 including sand, paints, thinner, labours , machinery, equipments, scaffolding etc. complete in all respects and as per direction of Engineer-in-Charge.	480	Sq.M			

ii	Painting of 04(Four) sets of ropedrum hoisting arrangements after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS: 14177:1994. Over the prepared surface two coats of zinc phosphate primer giving minimum dry film thickness of 40 ± 5 microns per coat followed by one coat of alkyl based Micaceous Iron Oxide paint giving minimum dry film thickness of 65 ± 5 microns and two coats synthetic enamel paints/Aluminium paint conforming to IS:2932 giving minimum dry film thickness of 25 ± 5 microns per coat(For structural components, machinery, unmachined surfaces, machined surfaces) are to be applied with an interval of 24 hours between each coat of dry film thickness of all coats including primer coats not less than 175 microns complete as per IS : 14177:1994 including sand, paints, thinner, labours, machinery, equipments, scaffolding etc.complete in all respects and as per direction of Engineer-in-Charge.	360	Sq.M			
2	Radial Gates and their Hoists					
A	“Repair and complete overhauling and re-Erection of Six Nos. of Barrage Radial Gates of Size-12200x6000 mm including their 25 T Capacity Hoists like replacement of all rubber seals of Gates after dismantling old, Replacement by dismantling & removing old and damaged guide rollers with fitting of new ones , Replacement of bearing and housings in 1st shaft,2nd Shaft,line shaft after dismantling old and damaged ones(50%) ,Replacement of new turnbuckles after dismantling and removing old & damaged ones,Overhauling of 70:1 worm reducers with gear oil topping & alignment, Overhauling of trunnion assembly by greasing trunnion pins and Greasing all gear trains including alignment of all gears, pinions, first shaft, second shaft, line shaft ,bearing, housing, Replacement of new socketed wire rope of ϕ 28 mm with equalising with turn buckles, application of cardium compound after dismantling and removing old and damaged ones,Replacement of position indicator assembly after dismantling of old & damaged ones,Replacement of hand drive arrangement after dismantling of old & damaged ones, including Testing and commissioning with Trial operation of Radial Gates (6 Nos.) and complete overhauling of Hoists by using cutting equipments & industrial gases but excluding Wire Ropes,Steel, Welding Rods, both SS and Structural Steel , Rubber Seals, Nuts & Bolts ,Bearings , EM Brakes, Turn Buckles, Guide Rollers with Brackets , lubricants, welding electrodes etc. which will be supplied by OCCL with cost of labour, hire charge of handling equipments such as suitable capacity Crane /Hydra/winch/ chain pulley blocks etc, complete in all respects of Hati Barrage at Mangalpur , District-Kalahandi (Odisha) as per approved drawing and direction of the Engineer-in-Charge.”	6	Sets			
B	Supply, Fabrication, erection, alignment, and painting of six sets (Each set three Nos.) of Gear Box Cover & Central Drive Covers for Radial Gates of Hati Barrage at Mangalpur District-Kalahandi (Odisha) with 2mm M.S.Sheet, 25x25x5mm Angles and required fasteners along with cost of labour, hire charges of handling equipment such as winches/chain pulley blocks/crane etc., tools & tackles and consumables, welding Rods, and Paints as per approved drawing and direction of the Engineer-in-Charge.	6	Sets			
C	SURFACE PREPARATION AND PAINTING OF SIX NOS. OF RADIAL GATES WITH THEIR HOISTING SYSTEM WITH LABOUR,MACHINERY/EQUIPMENTS ETC.					
i	Painting of 6(Six) sets radial gate after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994. After blast cleaning, the surface should be cleaned from loose dust and debris preferably by air blast with help of blower. Over the prepared surfaces two coats of zinc rich primer should be applied to give a total dry film thickness of 70 ± 5 microns followed by two coats of solvent less coal tar epoxy paint applied at an interval of 24 hours. Each coat should give a minimum dry film thickness of 150 ± 5 microns. The total dry film thickness of all the coats including primer coating should not less than 350 ± 5 microns as per IS: 14177:1994 including sand, paints, thinner, labours , machinery, equipments, scaffolding etc. as per direction of Engineer-in-Charge.	2100	Sq.M			

ii	Painting of 06(Six) sets of Rope Drum Hoisting arrangements after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994.Over the prepared surface two coats of zinc phosphate primer giving minimum dry film thickness of 40 ± 5 microns per coat followed by one coat of alkyl based Micaceous Iron Oxide paint giving minimum dry film thickness of 65 ± 5 microns and two coats synthetic enamel paints/Aluminium paint conforming to IS:2932 giving minimum dry film thickness of 25 ± 5 microns per coat(For structural components, machinery, unmachined surfaces, machined surfaces) are to be applied with an interval of 24 hours between each coat of dry film thickness of all coats including primer coats not less than 175 microns complete as per IS : 14177:1994 including sand, paints, thinner, labours, machinery, equipments, scaffolding etc. as per direction of Engineer-in-Charge.	1500	Sq.M			
3	Left Head Regulator Gates and their Hoists					
A	Dismantling and complete overhauling of Three Nos. of Left Head Regulator Gates of Size 6000x2800 mm using handling equipments such as chain pulley blocks, Jhullas/Hydra Crane, Grinding Tools etc., with cost of labour, hire charges of handling equipment, tools & tackles, consumables including dismantling of old Gate rubber seals but excluding all required materials like wheel Bearings, Rubber Seals,fasteners, lubricants ,welding electrodes, steel etc will be supplied by OCCL including overhauling of Gate Wheels and Rubber Seals Change, Top Seal Seat Grinding etc. , 50% Gate wheel bearings & dismantling of excess concrete and lowering of Gates to their position after maintenance including testing and commissioning of LHR Gates complete in all respects as per approved drawings & direction of the Engineer-in-Charge.	3	Sets			
B	Dismantling and complete overhauling of LHR Gate hoists of capacity 16T bridges using handling equipments such as chain pulley blocks, Jhullas/Hydra Crane, etc., with cost of labour, hire charges of handling equipment, tools & tackles, consumables including dismantling of old wire ropes, EM Brake, Position Indicators but excluding all required materials like Wire Ropes, Bearings, fasteners, lubricants ,welding electrodes, steel etc will be supplied by OCCL overhauling & replacement of Worm Reducers, replacement of Socketed Wire Ropes, 50% Hoist beaings Change, overhauling of postion indicators, hoist gear trains, replacement of EM Brakes Greasing all gear trains including alignment of all gears, pinions, first shaft, second shaft, line shaft, bearing, housing maintenance complete in all respects including testing and commissioning of Hoists as per approved drawings & direction of the Engineer-in-Charge.	3	Sets			
C	SURFACE PREPARATION AND PAINTING OF THREE NOS. OF LHR GATES WITH THEIR HOISTS WITH LABOUR,MACHINERY/EQUIPMENTS ETC.					
i	Painting of 3(Three) sets LHR Gates after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994. After blast cleaning, the surface should be cleaned from loose dust and debris preferably by air blast with help of blower. Over the prepared surfaces two coats of zinc rich primer should be applied to give a total dry film thickness of 70 ± 5 microns followed by two coats of solvent less coal tar epoxy paint applied at an interval of 24 hours. Each coat should give a minimum dry film thickness of 150±5 microns. The total dry film thickness of all the coats including primer coating should not less than 350 ±5 microns as per IS: 14177:1994 including sand, paints, thinner, labours , machinery, equipments, scaffolding etc. as per direction of Engineer-in-Charge.	300	Sq.M			

ii	Painting of 03(Three) sets of ropedrum hoisting arrangements after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994.Over the prepared surface two coats of zinc phosphate primer giving minimum dry film thickness of 40 ± 5 microns per coat followed by one coat of alkyl based Micaceous Iron Oxide paint giving minimum dry film thickness of 65 ± 5 microns and two coats synthetic enamel paints/Aluminium paint conforming to IS:2932 giving minimum dry film thickness of 25 ± 5 microns per coat(For structural components, machinery, unmachined surfaces, machined surfaces) are to be applied with an interval of 24 hours between each coat of dry film thickness of all coats including primer coats not less than 175 microns complete as per IS : 14177:1994 including sand, paints, thinner, labours, machinery, equipments, scaffolding etc.	240	Sq.M			
4	RHR Gates and their Hoists					
A	Dismantling and complete overhauling of Three Nos. of Right Head Regulator Gates of Size 4000x2000 mm using handling equipments such as chain pulley blocks, Jhullas/Hydra Crane, Grinding Tools etc., with cost of labour, hire charges of handling equipment, tools & tackles, consumables including dismantling of old Gate rubber seals but excluding all required materials like wheel Bearings, Rubber Seals,fasteners, lubricants ,welding electrodes, steel etc will be supplied by OCCL including overhauling of Gate Wheels and Rubber Seals Change, Top Seal Seat Grinding etc. , 50% Gate wheel bearings & dismantling of excess concrete and lowering of Gates to their position after maintenance including testing and commissioning of RHR Gates complete in all respects as per approved drawings & direction of the Engineer-in-Charge.	3	Sets			
B	Dismantling and complete overhauling of RHR Gate hoists of capacity 16T bridges using handling equipments such as chain pulley blocks, Jhullas/Hydra Crane, etc., with cost of labour, hire charges of handling equipment, tools & tackles, consumables including dismantling of old wire ropes, EM Brake, Position Indicators but excluding all required materials like Wire Ropes, Bearings, fasteners, lubricants ,welding electrodes, steel etc will be supplied by OCCL overhauling & replacement of Worm Reducers, replacement of Socketed Wire Ropes, 50% Hoist beaings Change, overhauling of postion indicators, hoist gear trains, replacement of EM Brakes Greasing all gear trains including alignment of all gears, pinions, first shaft, second shaft, line shaft, bearing, housing maintenance complete in all respects including testing and commissioning of Hoists as per approved drawings & direction of the Engineer-in-Charge.	3	Sets			
C	SURFACE PREPARATION AND PAINTING WITH LABOUR,MACHINERY/EQUIPMENTS ETC.					
i	Painting of 3(Three) sets left head regulator gate after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994. After blast cleaning, the surface should be cleaned from loose dust and debris preferably by air blast with help of blower. Over the prepared surfaces two coats of zinc rich primer should be applied to give a total dry film thickness of 70 ± 5 microns followed by two coats of solvent less coal tar epoxy paint applied at an interval of 24 hours. Each coat should give a minimum dry film thickness of 150±5 microns. The total dry film thickness of all the coats including primer coating should not less than 350 ±5 microns as per IS: 14177:1994 including sand, paints, thinner, labours , machinery, equipments, scaffolding etc. complete in all respects and as per direction of Engineer-in-Charge.	280	Sq.M			

ii	Painting of 03(Three) sets of ropedrum hoisting arrangements after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994.Over the prepared surface two coats of zinc phosphate primer giving minimum dry film thickness of 40 ± 5 microns per coat followed by one coat of alkyl based Micaceous Iron Oxide paint giving minimum dry film thickness of 65 ± 5 microns and two coats synthetic enamel paints/Aluminium paint conforming to IS:2932 giving minimum dry film thickness of 25 ± 5 microns per coat(For structural components, machinery, unmachined surfaces, machined surfaces) are to be applied with an interval of 24 hours between each coat of dry film thickness of all coats including primer coats not less than 175 microns complete as per IS : 14177:1994 including sand, paints, thinner, labours, machinery, equipments, scaffolding etc. complete in all respects and as per direction of Engineer-in-Charge.	210	Sq.M			
5	REPAIR BY SUPPLY, FABRICATION,PAINTING OF WALKWAY OF HATI BARRAGE OF UIIP AT MANGALPUR."					
A	REPAIRING,FABRICATION WITH LABOUR, HIRE CHARGES OF MACHINERY/ EQUIPMENTS, SCAFFOLDING.					
	Strengthening by repair, fabrication of walkway at site of work	1.5MT	MT			
B	SURFACE PREPARATION AND PAINTING WITH LABOUR,MACHINERY/EQUIPMENTS ETC.					
	Painting of walkway after surface preparation by blast cleaning process, performed with sand as per requirements and class 'A' of IS : 14177:1994.Over the prepared surface two coats of zinc phosphate primer giving minimum dry film thickness of 40 ± 5 microns per coat followed by one coat of alkyl based Micaceous Iron Oxide paint giving minimum dry film thickness of 65 ± 5 microns and two coats synthetic enamel paints/Aluminium paint conforming to IS:2932 giving minimum dry film thickness of 25 ± 5 microns per coat(For structural components, machinery, unmachined surfaces, machined surfaces) are to be applied with an interval of 24 hours between each coat of dry film thickness of all coats including primer coats not less than 175 microns complete as per IS : 14177:1994 including sand, paints, thinner, labours, machinery, equipments, scaffolding etc. complete in all respects and as per direction of Engineer-in-Charge.	1800	Sq.M			

Signature of Job-Worker or his
power of attorney holder with date
full name, designation and official seal

Senior Manager (Mech.)
OCCL, Regional Workshop,
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