

CORRIGENDUM -1 TO TENDER SPECIFICATION BHEL PSSR SCT 1679,dt: 4/9/2017

Some of the bidders sought clarifications in regard to TENDER SPECIFICATION BHEL PSSR SCT 1679 - Development of Storage Yard, Mess building, Foundation work of Office & Store Shed, etc for 5x800 MW sets at Yadadri TPS, Nalgonda DT, Telangana State and BHEL's clarifications are furnished below for information.

DOCUMENT	Ref/CLAUSE NO	EXISTING PROVISION in the tender	Bidder's Clarification/Query	BHEL REPLY
Price bid	BOQ item nos 20,35,41,44,45,46	Unit of measurement is not provided in the price bid for the indicated items	Please provide the Unit of measurement for the indicated items	Attached the Revised Price bid (Rev- 01) by incorporating the unit of measurement for the indicated items in the bidder's query.
TCC	Drawings	—	We would like to participate in the subject mentioned valuable tender, reference no. BHEL PSSR SCT 1679 request you to kindly provide us with the layout drawing of mess building for tender purpose	Drawings will be provided on start of work. Vendor to bid as per contract since the contract is item wise.
TCC Volume-1A, Part-1 , NIT.Clause -v&vi,	Due Date & Time of Offer Submission and tender opening	Due Date & Time of Offer Submission-Date: Sep 06, 2017, Time :15.00 Hrs Opening of Tender-Date: Sep 06, 2017, Time :15.30 Hrs	Requested to extend further three weeks from the original date of 6/9/2017	Due date & time of tender submission and tender opening are revised as under.All other conditions in the cited clauses remains same. Due Date & Time of Offer Submission-Date: Sep 21, 2017, Time :15.00 Hrs Opening of Tender-Date: Sep 21, 2017, Time :15.30 Hrs

With regard to above Tender Specification : BHEL PSSR SCT 1679 ,the following clarifications are furnished by BHEL for information

TCC Volume-1A, Part-1, Chapter-8,Taxes and other duties	1.8.1.3	Bidder shall note that the GST Tax Invoice complying with GST Invoice Rules wherein the 'Bill To' details will as below: BHEL GSTN -33AAACB4146P2ZL NAME – BHEL Site Office ADDRESS –5 X 800 MW ENNORE SEZ STPP, VAYALUR BR PO, MINJUR PO, TAMILNADU - 601203	Revised by BHEL	Clause 1.8.1.3 in the TCC is revised as under: Bidder shall note that the GST Tax Invoice complying with GST Invoice Rules wherein the 'Bill To' details will as below: BHEL GSTN -36AAACB4146P1ZG NAME – BHEL Site Office Yadadri TPS,Virlapalem village, Dameracherla Mandal, Nalgonda DT, Telangana State
TCC Volume-1A, Part-1 , NIT.	Clause -xi, Integrity Pact & Details of Independent External Monitor (IEM)	Details of IEM for this tender is furnished below: Name: Mrs. Pravin Tripathi, IA & AS (Retd.) D-243, Anupam Gardens, Lane IB, Neb Sarai, Sainik Farms, New Delhi – 110 068 Ph.: +91 11 29533206 / 29531715. pravin.tripathi@gmail.com	Revised by BHEL	The details of IEM alone is revised as under . All other conditions in (a) and (b) in the cited clause remains same. Shri D.R.S Chaudhary, IAS (Retd.) Flat No. L-202 & L-203 (1st Floor) Ansal Lake View Enclave,Shamla Hills Bhopal- 462 013 (M.P.) dilip.chaudhary@icloud.com
TCC Volume-1A, Part-1 , NIT.	27	The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site "http://www.bhel.com → tender notification".	Revised by BHEL	Clause -27 in the NIT is revised as under: The offers of the bidders who are under suspension as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site "www.bhel.com → tender notification".
TCC Volume-1A, Part-1 , NIT.	28	It may be noted that guidelines / rules in respect of 'Suspension of Business dealings', 'Vendor evaluation format', Quality, Safety & HSE guidelines', etc may undergo change from time to time and the latest one shall be followed.	Revised by BHEL	Clause -28 in the NIT is revised as under: It may be noted that guidelines / rules in respect of 'Suspension of Business dealings' available on BHEL web site "www.bhel.com → Supplier Registration", 'Vendor evaluation format', Quality, Safety & HSE guidelines', etc may undergo change from time to time and the latest one shall be followed.
GCC SCC Forms & Procedures -Amend 1 Volume 1 D	Mothly Performance Evaluation of Contractor Form -15	Form No: F-15 (Rev 01),Amend 01	Revised by BHEL	Revised Form-15 is attached which is applicable for this tender

Note:-

All other Terms & Conditions remain unchanged.This corrigendum will form part of the tender.Bidders are requested to submit this along with their offer with duly signed

AGM / SCT & PURCHASE

TENDER SPECIFICATION

BHEL: PSSR: SCT: 1679

FOR

**Development of Storage Yard, Mess building, Foundation
work of Office & Store Shed, etc for 5x800 MW sets**

at

Yadadri TPS, Nalgonda DT, Telangana State

**VOLUME –II PRICE BID
Revision-01**



BHARAT HEAVY ELECTRICALS LIMITED

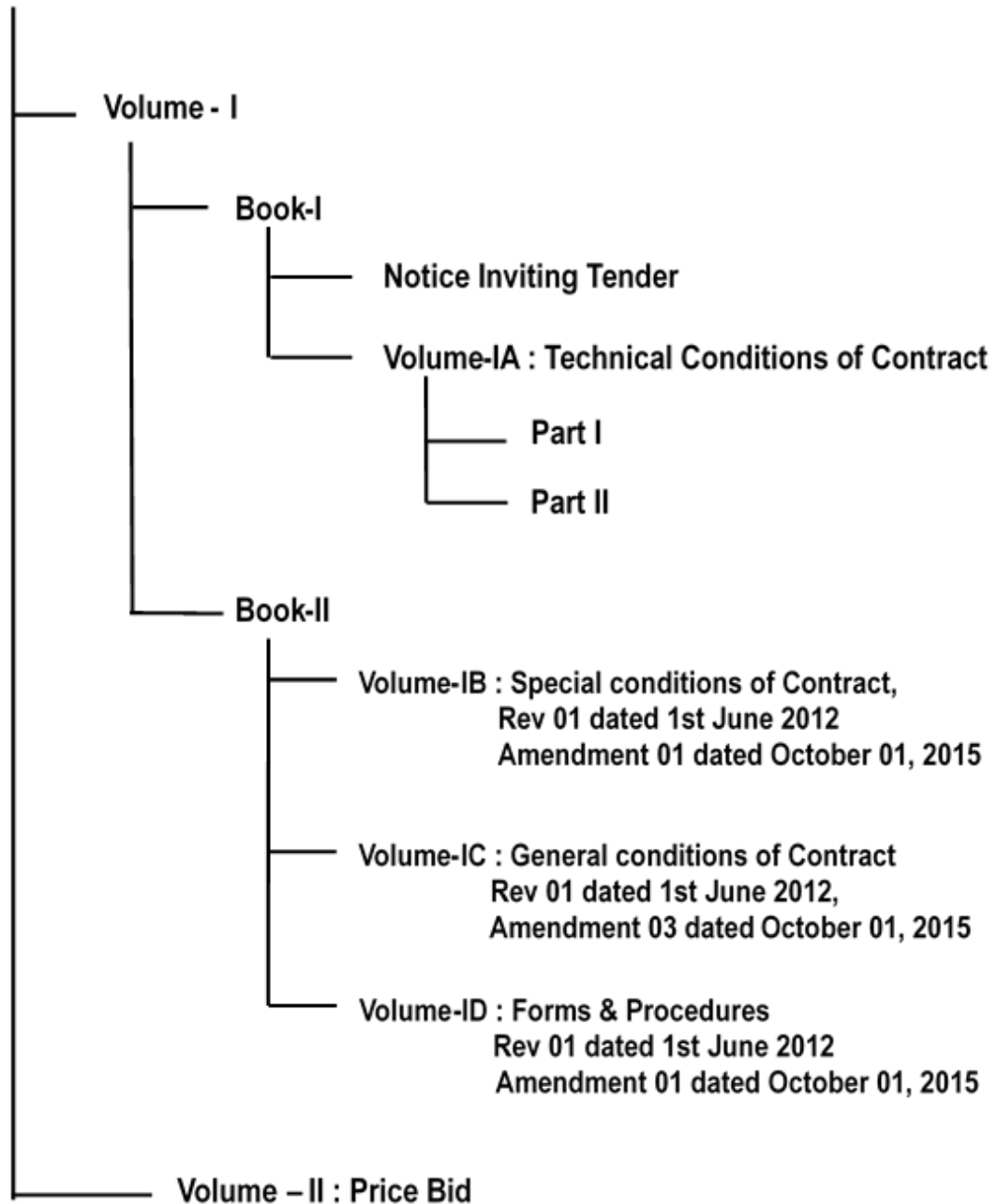
(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035

TENDER SPECIFICATION CONSISTS OF

Tender Specification



Description	No. of pages
Part A: Instructions to the Bidders	1
Part B: Format to quote total amount	1
Part C: Bill of quantities with weightage for amount of each items w.r.t. the total quoted price	11

PART-A-INSTRUCTIONS TO BIDDERS:

1. Bidders shall only quote 'Total Amount' in the format given in PART -B of the price bid. Any other entry elsewhere in the price bid shall be treated as Null and Void.
2. The above mentioned 'Total amount' is for the entire Bill of Quantity (BOQ) given in Part -C of the Price Bid.
3. BHEL has pre-fixed the weightages for the amount of individual items of Bill of Quantity with respect to the 'Total Amount' in Part-C.
4. Based on the pre-fixed weightages, the amount for the individual items of the Bill of Quantity shall be arrived at. This amount shall be rounded off to the nearest rupee.
5. Based on the quantities of individual item and the amount arrived in SI No: 4 above, unit rate of individual items shall be derived. This unit rate shall be rounded off to four decimal places.
6. Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per SI No.5 above.

Part B: Format to quote Total Amount

**Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development
at 5 X 800 MW Yadadri TPS**

Total Amount for the entire Bill of Quantities(BOQ) given in Part C

In Figures

In words

Note :

Bidders to quote Total Amount in this format given above, which shall be taken into account for evaluation and awarding and hence, shall be complete in all respect for the full scope defined in specification and in accordance with all terms & conditions of tender.

Date

SIGNATURE OF BIDDER WITH SEAL

Part C : Bill of Quantities**Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development
at 5 X 800 MW Yadadri TPS**

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
1.0	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 500 m outside the periphery of the area cleared.	SQM	256,900	.0265528
2.0	Felling trees beyond 30 cm girth upto and including 60 cm girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material as directed by engineer in charge.	NOS	20	.000073
3.0	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 500 m, spreading/levelling of disposed materials etc all complete.	CUM	50	.00006
4.0	Earth work in excavation in soft rock (rock without any recovery of excavated materials in the form of hard stone/boulder) including weathered rock which can be excavated by means of crow bar, pick axe, pneumatic rock breaker attachment with excavator machine etc but does not require chiselling or blasting including setting out, levelling, dewatering (wherever required), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, Earth work In excavation, backfilling and disposal including necessary ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 500 m, spreading / levelling of disposed materials etc all complete.	CUM	1,000	.0022157
5.0	Earth work in excavation in hard rock requiring blasting (but excluding controlled blasting) including wedging, line drilling, pre shearing etc as required, setting out, levelling, dewatering (wherever required), dressing the sides & bottom, all lifts, necessary licenses/statutory clearances for blasting, supply, storage & handling of blasting materials, stacking/disposal of surplus excavated material within a lead upto 500m, spreading / levelling of disposed materials etc all complete for following depths below ground level.	CUM	13,545	.0534847

Part C : Bill of Quantities**Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development
at 5 X 800 MW Yadadri TPS**

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
6.0	Supplying and filling with selected good earth of approved quality in layers not exceeding 300 mm loose thickness using borrowed soil (borrowed soil to be arranged by the bidder) and compacted so as to achieve at least 95 % maximum dry density as per IS-2720 (Part-VII) including royalty/seignorage fee (if any), sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, teting etc all complete.	CUM	50,000	.1281151
7.0	Back filling around foundations in plinths, trenches, drains etc to proper grade and level with selected good soil from compulsorily excavated earth within a lead of 1 Km free from shingle, salts, organic materials, roots, sod or any other foreign substance including re-excavating loose thickness, watering and ramming in layers of 15cm thickness compacted to 75% of relative density for non cohesive soil and 90% of its maximum dry density for cohesive soils by manual/ mechanical means, dressing etc complete.	CUM	100	.0004122
8.0	Supplying and filling in plinth with river sand under floors, including watering, ramming, consolidating and dressing complete.	CUM	1,776	.0293484
9.0	Providing and laying PCC of mix 1:4:8 using 20mm size hard broken granite stone jelly including formwork, ramming, levelling, curing etc., for foundation, flooring, side drains etc. including providing necessary slopes etc., complete as per standard specifications at heights.	CUM	796	.0375009
10.0	Plain Cement Concrete of grade M10/1:3:6 using 20mm aggregate as levelling course, under water retaining structures, equipment foundations, under foundations/floors etc. all complete.	CUM	166	.0084966
11.0	Providing and laying PCC of mix 1:2:4, 100 mm thick for grade slab, flooring etc. using 20 mm size hard broken granite stone jelly ramming, levelling, curing etc. for flooring including providing necessary slopes etc, complete as per standard specifications at heights.	CUM	1,473	.0874099
12.0	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement of grade 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	CUM	415	.0256644

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development
at 5 X 800 MW Yadadri TPS**

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
13.0	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement of grade 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	CUM	520	.0308575
14.0	Fairface form work with good quality water proof ply wood of required thickness and smooth surface below finished ground floor level for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc.	SQM	8,660	.0529547
15.0	Straightening, cutting, bending, placing in position at any level, binding in position of tor steel reinforcements confirming of grade Fe-415 confirming to IS:1786 including cost of binding wire, labour, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer All Steel required will be provided by BHEL. Steel provided will be in rusted condition and needs to be cleaned by the contractor. Contractor to include cost of cleaning within the quoted rates.	MT	100	.0245399
16.0	Supply and fixing of embedments, inserts, pipe sleeves, angle pieces, anchor bolts of various diameters, plates of dimensions as required etc. including scaffolding, setting in position,etc. all complete.	Kg	400	.0003629
17.0	Providing & laying water bound macadam base course in layers of required thickness with stone aggregate 63mm to 40mm size(IRC 19 - grading -1), stone screening and blinding material including screening sorting, spreading to template and consolidation with road roller including carriage, spreading and consolidation of blinding material moorum etc compacting to the required density all complete for leads & lifts as per the instructions of engineer in charge. all complete .	CUM	11,100	.1298419

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development
at 5 X 800 MW Yadadri TPS**

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
18.0	Shifting angles post from BHEL yadadri stores, 2.5 m (above GL) high fencing with angle iron post (65x65x6) placed every 2 m center to center embedded in rock by drilling hole of minimum diameter 100 mm to a minimum depth of 450 mm. The drilled hole to be grouted with a cement slurry mix of 1:1 after placement of the angle. Every 15th post last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with G.I. chain link fencing of required width in mesh size 50x50 mm made of G.I wire of dia 4mm between the two posts and fixed with GI staples, turn buckles etc., complete. Rate to include cost of iron post, earth work, drilling, grouting, concrete, chain and struts,labour charges etc., complete as per standard specifications. Painting of post(yellow colour) to be included under the scope of the contractor	RM	5,145	.1218394
19.0	Supplying, fabricating steel gate upto 10.0 m wide as shown in the drawing transporting components to erection site and erection of fabricated steel work including all handling, leading, assembling, hoisting,erection in position and site welding/fastening, bolts wherever required as per drawing and specification. Rate to include providing PCC 1:4:8 for supporting the pillars, cost of raw steel, fabrication, erection, all consumables cement, labour charges etc., complete including synthetic enamel painting two coats over one coat of red oxide primer. (For the smaller gate proportionate rate shall be worked out on Sq.M basis). Steel for fabricaiton of gate needs to be provided by the contractor.	SQM	120	.0067541
20.0	Providing and laying non pressure NP2 class(light duty) RCC pipes with collars jointed with stiff of mixture of CM 1: 2 including testing of joints etc., complete. 250 mm dia RCC pipe.	RM	300	.001983
21.0	Supply of Pre-cast RCC concrete sleepers of size 150 x 200 x 1500mm as per enclosed drawing concrete mix of 1:2:4 grade (with 20mm down aggregate) inclusive of form work, mixing, casting, curing, reinforcement-4nos 10mm dia & stirrups 11nos-6mm dia and lifting facility and handling (loading, transportation & unloading) of cast blocks to handover to BHEL storage yard. Rate shall be inclusive of cost of material like cement, aggregate, loading, transportation & unloading at BHEL Stores, consumble, labour etc. Reinforcement Steel will be provided by BHEL. Vendor to include cost of cleaning the rust from steel.	NOS.	12,000	.0788744

Part C : Bill of Quantities

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Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
22.0	Providing brick work in C.M 1 : 6 in foundation and superstructure using clay bricks as per standard specifications. Rate to include cost of scaffolding, labour, curing etc., complete.	CUM	650	.0451535
23.0	Providing plastering with CM 1 : 6, 15mm thickness all as per standard specifications, including rendering smooth, rounding of corners etc., complete.	SQM	5,220	.0127937
24.0	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	SQM	480	.0019548
25.0	Supplying and painting distemper two coats over and including water thinnable priming coat with cement primer using best quality oil bound washable distemper of approved make and colour. Rate to include cost of cleaning and preparation of the surface, applying putty, labour, materials etc., all complete.	SQM	4,900	.0043064
26.0	Providing and laying vitrified floor tiles in different sizes (8 mm thickness) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in white/ivorey colour, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	SQM	415	.007613
27.0	Providing antiskid ceramic tile flooring for Toilet and passage of size 300x300mm of min-6mm thickness of 1st quality conforming to IS:15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, to be laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigment etc all complete.	SQM	195	.0039779
28.0	Providing supplying and fixing false ceiling of anodized aluminum grid construction of main ceiling tees of size 25x38x1.8mm cross tees of size 25x25x1.8mm and wall angles of size 25x25x1.8mm forming a grid of 600x600mm panels with various members for fastenings and fittings to minute tolerances, suspended from the steel purlins / trusses with 6mm aluminum painted MS rods, J bolts, nuts, washers and all necessary hardware complete with perforated particle board ceiling tiles 12mm thick complete and as directed by engineer in charge.	SQM	1,152	.0086699

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
29.0	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters : 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. Rate to include cost of labour, painting one priming coat and two coats of ready mixed synthetic enamel paint of approved make and colour.	SQM	54	.0014652
30.0	Supplying and fixing of steel windows and ventilators with steel sections as per IS:1038, IS:1361 & IS:7452 latest revision with outer frame angle 30x30x5 mm and flat of size 25x2 mm and covered with fully glass including cost of all materials, fabrication charges, over one coat of red oxide paint, all taxes, lead lift etc complete as directed by engineer in charge	SQM	48	.0010695
31.0	Providing and fixing wash basin of size 550x400 mm with CI brackets with 15 mm CP brass pillar caps, 52 mm CP brass waste of standard pattern including painting of fittings and brackets, cutting and making good the walls wherever required	NOS	12	.000485
32.0	Supplying and fixing in position 15mm nominal size down type brass bib cock of approved make and quality (leader, dripless, or orient) as per standard specifications. Rate to include cost of bib cock, jointing materials, labour for carrying, fixing, and testing etc., complete.	NOS	18	.0001838
33.0	Supplying at site of work & fixing in position of 100X75mm NAHANI trap with CI gratings as per standard specifications. Rate to include cost of all materials, labour for fixing, testing etc., complete.	NOS	12	.0000945
34.0	Providing and fixing Chlorinated Polyvinyl Chloride pipes having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps all complete-32 mm dia	RM	1,140	.0040789
35.0	Supplying and fixing sintex tank at site of work for storing water. Rate to include cost of tank and other incidental charges etc., complete.-1000 Litres capacity.	NOS	1	.0001077
36.0	Supplying and fixing sintex tank at site of work for storing water. Rate to include cost of tank and other incidental charges etc., complete.-5000 Litres capacity.	NOS	2	.0010769
37.0	Constructing soak pit 1.20X1.20X1.20m filled with brickbats including S.W. drain pipe 100mm diameter and 1.20m long complete as per standard design.	NOS	6	.0001572

SIGNATURE OF BIDDER WITH SEAL

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
38.0	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design. Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	NOS	6	.000406
39.0	Construction of a septic tank of size 6.00 x 2.40 x 2.70 metre and a cess pool of 3.00 metre dia as per drawing. Rate to include cost of Excavation,PCC,Brickwork,RCC works, Reinforcement,SW pipes, AC pipes,cowl,filling with aggregates cover slab,testing of the septic tank etc., complete as per drawing. (drawing for Tendering purpose attached.) Quote is lumpsum	NOS	3	.0040521
40.0	Supplying raw steel, fabricating steel work and transporting to erection site and erection of fabricated steel work including all handling conveying, loading, assembling, hoisting, erecting in position and site welding and / or bolting wherever required for tubular roof truss,etc., including applying a primer coat of approved steel primer complete as per standard, standard, specifications & instructions of engineer. Rate to include cost of all materials, leads, lifts, all labour charges etc.	Kg	2,280	.0019078
41.0	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.- 0.63 mm thick with zinc coating not less than 275 gm/ m ²	SQM	500	.0044438

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
42.0	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink of size 510x1040 mm bowl depth 225 mm; with drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required.	NOS	3	.0001735
43.0	Toilet: 1no - toilet for site in-charge room, 1no - toilet for conference hall , Toilet block all complete as per technical specification and approved drawing. All toilets should have required towel rods, soap dispensers, glazed mirrors etc with automatic flushing System including total required plumbing. SI & Confernce hall toilet Ewc contains Health faucet,Coat hook,Paper holder Wash basin contains Mirror,Soap dispensor,Towel ring & Bottle trap,In gents toilet Urinal Magnum type will be provided	--		
a)	1nos Toilet with 1 EWC, 1 Wash Basin with required Towel rod, soap dispenser, Glazed mirror for Site-in-charge room.	NOS.	3	.0016884
b)	1 nos Toilet with 1 EWC, 1 Wash basin shall be provided for conference hall.	NOS.	3	.0016884
c)	A toilet Block consisting 4 urinals, 2 EWC, 1 IWC & 2 Wash basin shall be provided.	NOS.	3	.0050652
44.0	Supplying at site of work and fixing in position of 20mm dia nominal size of Gun metal wheel valve of approved make and quality (leader,dripless or orient) as per standard specifications.Rate to include cost of wheel valve, jointing materials, labour for carrying , fixing & testing complete.	RM	6	.0002822
45.0	Supplying medium duty Galvanised Iron pipes of the 20mm dia GI pipe line with specials.at site of work, laying to proper line and level in ground or jointing and fixing on walls & floors for water supply pipe lines with all necessary specials, unions and appurtenances, testing as per standard specifications, making necessary earthwork in ground, holes, chases etc. on floor & wall and making good all damages and finishing to match with the existing work, refilling the trenches with excavated earth and filling chases & grooves in walls and all other incidental charges etc. complete. Rate to include cost of GI pipes, specials and all other works.-	RM	150	.0002785

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
46.0	Supplying at site of work and laying UPVC pipes (150 mm dia UPVC pipe line with all specials.)of the following sizes in trenches and jointing with CM 1:2 and testing with water as per standard specifications. Rate to include cost of pipes, specials, all jointing materials like hemp yarn, sand, cement, conveyance of water, tools & plants for testing, labour and all incidental charges etc. complete & includes earthwork excavation for trenches and back filling.	RM	150	.0002785
47.0	Supporting structure for water tank designed as per standard IS specification to withstand the water tank load and wind load in full & the legs of structure shall be suitably anchored to the ground.	Nos.	3	.0033768
48.0	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut Granite for kitchen platforms of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	SQM	30	.0012447
49.0	Supplying and wiring with 1/ 18 gauge PVC insulated unsheathed copper conductor cable in rigid PVC conduit pipe for 10 lights and 5 fans with four number of 5 amps flush type switch.	Points	90	.0007598
50.0	Supplying and wiring with 7 / 22 PVC insulated copper unsheathed stranded conductor cable in rigid PVC conduit pipe 15 amps combined 5 amps (6 pin) flush type two in one switched socket with indicator on a suitable surface mounting PVC box with continuous run of number 14 GI wire earthing (Anchor / GPL / Ellora plate switched socket to be used).	Points	60	.000878
51.0	Supplying and wiring 3 / 22 G PVC insulated copper unsheathed conductor cable in rigid PVC conduit pipe for 5 amps 3 pin switched socket of plate switch type with indicator on a suitable surface mounting PVC box with continuous run of number 14 GI wire for earthing (Anchor / CCPL / Ellora plate switch type switched socket to be used).	Points	36	.0003444
52.0	supply of Ultra violet Type Insect catcher	Nos.	6	.0005065
53.0	Supply and fixing of a single 4 feet 40 w tube light fitting with assembly, putty, copper choke and starter on ceiling / wall all complete.	Nos.	60	.0005065

Part C : Bill of Quantities

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Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
54.0	Supply and fixing of water tight bulb head fitting with guard and glass suitable for and with 60 watt lamp.	Nos.	18	.0000912
55.0	Supply and fixing of 1400 mm sweep sweep ceiling fan with 600w anchor classic / supreme / rider make electronics regulator.	Nos.	33	.00065
56.0	Providing inverter type Split Air-conditioner with a of 1.5 Ton with complete installation including ancillary works, testing and commissioning as per manufacturers guidelines and specification. (Make: LG, Voltas, other standard make).	Nos.	18	.0066843
57.0	Supply and fixing of 600mm exhaust fan.	Nos.	12	.0005403
58.0	Supplying and fixing of 50cm length 50x40x20 cm or near about to accommodate meter board with peep through glass for meter reading, hinged doors with locking arrangements and meter card pockets.	Nos.	6	.0001182
59.0	Supply and fixing of 30 A HRC fuse unit block (with 5 nos. HRC fuses 30 A) and one number 30 A, 5w, TPN 4 way distribution board as per relevant standards mounted on teak wood planks of required size. This plank should be secured over 25 x 6 mm painted angle iron frame work inside the box or otherwise.	Nos.	6	.0001351
60.0	Supply and fixing of distribution board, each having 3 numbers of single pole MCB (15 A) and one number of single pole MCB (30A) as per relevant standards, iron frame work	Sets	6	.0001688
61.0	Supply and laying of number 8 GI wire for earthing	RM	300	.0001013
62.0	Fabrication & Erection of Steel Work for for watch tower, parking lot, etc., including loading, transportation to the identified location, unloading, all handling, conveying, assembling, hoisting, erecting in position and site welding and / or bolting wherever required, applying a primer coat of approved steel primer complete as per standard, standard, specifications & instructions of engineer. Rate to include cost of all materials except steel, leads, lifts, all labour charges etc. Cost to include cleaning of steel structure supplied to the agency before fabrication. Structural steel will be provided by BHEL. Collection of structural materials from BHEL Yadadri site and loading, transportation to the identified location, unloading at identified location including cleaning of steel and fabrication of steel is under the scope of agency.	MT	30	.0077036

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:1679 R01 for Yard Development
at 5 X 800 MW Yadadri TPS**

Ref.No.	Description	Unit	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
63.0	Supply and installation of Solar lamp posts for storage yard including solar panel,battery, charger and control panel.SPV Module: 12V 40 Wp, Tubular Battery: 12V 40 Ah, Lumen Output: 900 Lumens,LED 9 x 1 W high Bright white LEDs,Pole Length: 4.8 meter. & Diameter 2.5â solar PV charge controller with dusk to down operation and 1 year system warranty. Items should be procured from any standard manufacturer like TATA, philips, etc. following IS standards.	Nos.	30	.0035092
64.0	Supply and installation of CC Cameras (10 Nos.) within the boundary of the storage yard. (DVR 4Ch VGA port/HDMI port/Lan , HD CVI bullet 1 megapixel, 4 TB hard disk, SMPS power supply, necessary cables(2km) and connectors, poles for mounting along with required foundation works, other necessary items required for setting up the system). The manufacturer to be approved by Engineer incharge)	Sets	5	.0075599
65.0	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness on existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same, as per direction of officer in charge	Sqm	4,000	.0038125
66.0	Grassing with selection No. 1 grass including watering and maintenance of the lawn for 60 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and earth shall be paid for separately).	Sqm	4,000	.0005149
TOTAL Weightage				0.9999999

Project		Vendor			Package/Unit	
SL	Parameter for Measurement	Classification	Max Score	Score Obtained	Measurement Key/Scheduled date	Supporting Documents`
#1.01	Cumulative number of days in the month, the nominated Quality Officer or his authorised nominee was not available	QUALITY	1.5		Quality Officer or his authorised nominee should be available for all the days of working at site	Daily Log Book entry/Incident Registers/letter references
#1.02	Number of instances of non- compliance wrt FQP, Standard Drawings, Specifications, E&C Manuals etc.	QUALITY	1.5		No deviation from FQP, Standard Drawings, Specifications, E&C Manuals etc. is allowed without BHEL Engineer's approval.	Daily Log Book entry/Incident Registers/letter references
#1.03	Percentage submission of test certificates for batches of welding electrodes, cement, sand, aggregate, consumable, Paints etc. as applicable for this month OR In case of MM & MH package, monthly checks for Storage/Preservation of material.	QUALITY	1		Submission of 100% Test certificates for materials as per FQP is mandatory. MM & MH package: Storage/Preservation as per manual/procedure.	Daily Log Book entry/Incident Registers/letter references
#1.04	Number of incidences of improper storage & preservation (not in accordance to the guidelines of BHEL MUs or approved FQP) of materials, consumables (viz. gases, welding electrodes & fluxes, fuel etc.) & bought-out items (paints, fasteners etc.) under the custody of the contractor	QUALITY	1		Total number of non-compliances	Daily Log Book entry/Incident Registers/letter references
#1.05	Rework/ Rejection instances in a month necessitated due to deviation from Standard Drawings /Specifications /Manuals /E&C procedures /FQPs or due to Poor Workmanship by contractor	QUALITY	2		Reworks/ Rejection should be as minimum as possible. Total number of reworks/ rejections due to reasons attributable to contractor.	Daily Log Book entry/Incident Registers/letter references
#1.06	Delay in preparation & submission of signed protocols / log sheets / site register / NDT test reports as per approved FQP/ Qualified Welder List along with photocopies of Welder ID cards / Welder Performance Evaluation records etc. in the month OR in case of MM / MH package reconciliation statement / verification report.	QUALITY	1		Within 2 days of measurements taken or within first 3 working days of next month, as advised by BHEL Engineer	Daily Log Book entry/Incident Registers/letter references
#1.07	Number of instances for Major equipment/product failure due to negligence/improper work/poor workmanship by contractor	QUALITY	1		No such event should happen	Daily Log Book entry/Incident Registers/letter references
#1.08	Total number of complaints received in the month on the quality of finish / aesthetics	QUALITY	1		Total number of non-compliances	Daily Log Book entry/Incident Registers/letter references

Name and Signature of BHEL Package In-charge

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MONTHLY PERFORMANCE EVALUATION OF CONTRACTOR

Form No.: F-15

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Project		Vendor			Package/Unit	
SL	Parameter for Measurement	Classification	Max Score	Score Obtained	Measurement Key/Scheduled date	Supporting Documents`
#2.01	Cumulative number of days of delay in submission of Plan FOR THE MONTH supported by deployment plan of Major T&Ps and Manpower (as per Form F-14) and relevant construction/layout drawings - like A4 plan / elevation views of plan status for structures / pressure parts/Civil Works, Piping isometrics for piping, Layout / PID / System reference sketch, Unloading / storage plans etc.as applicable.	PERFORMANCE	5		Number of days delayed from second working day of the month	Daily Log Book entry/Incident Registers/letter references
#2.02	Percentage of timely submission of Daily Reports for Progress of work, Resources, Consumables etc.	PERFORMANCE	1.5		Percentage of timely submission of daily reports/ Scheduled date is successive next day for each day	Daily Log Book entry/Incident Registers/letter references
#2.03	Number of days delayed for submission of FQP log sheets / protocols / Monthly Progress Reports for the work executed during the month under measurement	PERFORMANCE	1.5		Number of days delayed/Scheduled date is first 2 working days of next month	Daily Log Book entry/Incident Registers/letter references
#2.04	Shortfall attributable to contractor w.r.t. Plan as per Form-14 for the subject month	PERFORMANCE	35		Percentage of shortfall to be calculated w.r.t. Total planned target for the month as per part-A of F-14. If more than one work has been planned in a month then Weightages of works shall be assigned at the time of plan to arrive at plan vs achievement calculation.	Progress review formats
#2.05	Number of days delayed in submission of Running bills with complete supporting documents (including updated reconciliation statement of BHEL issued material) for the month	PERFORMANCE	2		Number of days delayed / Scheduled date is 7th day of next month	Daily Log Book entry/Incident Registers/letter references
#2.06	Number of times the Top Management of contractor did not respond to critical issues of site, for the month	PERFORMANCE	1		Total number of instances	Daily Log Book entry/Incident Registers/letter references
#2.07	Cumulative number of days in the month the works were stopped / refused on interpretation of contract clauses/scope due to tendency of taking undue advantage by interpreting contract clauses in their favour	PERFORMANCE	2		Cumulative number of days lost	Daily Log Book entry/Incident Registers/letter references
#2.08	Number of times rework was refused by contractor	PERFORMANCE	1		Total number of non-compliances	Daily Log Book entry/Incident Registers/letter references

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Project		Vendor			Package/Unit	
SL	Parameter for Measurement	Classification	Max Score	Score Obtained	Measurement Key/Scheduled date	Supporting Documents`
#2.09	Cumulative number of days in the month recording / logging was not done in daily log / history register / hindrance register / soft form in a PC maintained at BHEL Site Office	PERFORMANCE	1		Cumulative number of days recording or logging was not done / all days of the month	Daily Log Book entry/Incident Registers/letter references
#3.01	Number of days of non-availability of required Manpower including supporting staff as per plan submitted in F-14 for the month.	RESOURCES	7		Cumulative number of days Sufficient Manpower was not available as per Plan in F-14	Daily Log Book entry/Incident Registers/letter references
#3.02	Number of days of non-availability of required T&P as per plan submitted in F-14 for the month.	RESOURCES	7		Cumulative number of days Sufficient T&P was not available as per Plan in F-14	Daily Log Book entry/Incident Registers/letter references
#3.03	Cumulative number of major instances in the month hampering / affecting progress of work due to breakdown or non-availability of major T&P and MME for the work, under the scope of Contractor	RESOURCES	3		Cumulative number of instances	Daily Log Book entry/Incident Registers/letter references
#3.04	Cumulative number of major instances in the month hampering / affecting progress of work due to non-availability of Consumables/ use of improper consumables under the scope of contractor	RESOURCES	3		Cumulative number of instances	Daily Log Book entry/Incident Registers/letter references
#4.01	Number of non-compliances during the month for Statutory requirements like validity of Labour Licence, Insurance Policy, Labour Insurance, PF, BOCW Compliance etc. and any other applicable laws/ Regulation, Electrical Licence, T&P fitness certificate, Contractors' All Risk Policy etc. as applicable	SITE INFRASTRUCTURE & SERVICE	1		Total number of non-compliances	Daily Log Book entry/Incident Registers/letter references
#4.02	Cumulative number of days in a month poor illumination is reported at storage area, erection area, pre-assembly area and other designated areas by BHEL site.	SITE INFRASTRUCTURE & SERVICE	0.5		Total number of non-compliances/random checks	Daily Log Book entry/Incident Registers/letter references
#4.03	Cumulative number of days of non-availability of well-maintained toilets facilities for workers (separate for men and women) and non-availability of potable drinking water stations for workers in specified areas.	SITE INFRASTRUCTURE & SERVICE	1		Total number of non-compliances/random checks	Daily Log Book entry/Incident Registers/letter references

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Project		Vendor			Package/Unit	
SL	Parameter for Measurement	Classification	Max Score	Score Obtained	Measurement Key/Scheduled date	Supporting Documents`
#4.04	Total number of instances in the month, Housekeeping NOT attended to in spite of instructions by BHEL -i.e. removal / disposal of surplus earth / debris / scrap / unused / surplus cable drums / other electrical items / surplus steel items / packing materials, thrown out scrap like weld butts, cotton waste etc. from the working area to identified locations	SITE INFRASTRUCTURE & SERVICE	2		Total number of non-compliances/random checks	Daily Log Book entry/Incident Registers/letter references
#4.05	Total number of instances in a month, Site Office with reasonably good facilities including enough nos. of computers and printers etc. for use by office and supporting staff was not made available/maintained.	SITE INFRASTRUCTURE & SERVICE	0.5		No discrepancy during regular or surprise visits	Photograph and report of the Engineer
#5.01	Number of days delayed in making labour payments for the last month	SITE FINANCE	2		Number of days delayed / Scheduled date is 7th day of next month	Daily Log Book entry/Incident Registers/letter references
#5.02	Number of complaints from labour/ sub supplier/ sub-contractor for non-receipt of payments from contractor	SITE FINANCE	1.5		Total number of complaints or reporting	Daily Log Book entry/Incident Registers/letter references
#5.03	Number of times the site operations were hampered for want of funds at the disposal of site-in-charge.	SITE FINANCE	1.5		Total number of non-compliances	Daily Log Book entry/Incident Registers/letter references
#6.01	Cumulative number of days in a month the nominated Safety Officer was not available	HSE & SA	1		Safety Officer should be available for all the days	Daily Log Book entry/Incident Registers/letter references
#6.02	Shortfall in number of weekly safety meetings in the month conducted or attended by the Safety Officer	HSE & SA	0.5		Safety meetings to be held every week	Copy of Minutes of meeting
#6.03	Level of compliance w.r.t decisions taken in previous Safety meetings	HSE & SA	0.5		Number of consolidated issues discussed in Safety meetings	Copy of Minutes of meeting, Non-compliance intimation documents from BHEL site
#6.04	Delay in submission of monthly report on safety (including electrical safety for equipment & personnel etc.) in the prescribed form	HSE & SA	1		Number of days delayed/Scheduled date is third working day of next month	Daily Log Book entry/Incident Registers/letter references
#6.05	Number of days taken for lodging FIRs from date of occurrence/notice of incident of theft / accident etc.	HSE & SA	0.5		Number of days delayed/Scheduled date is within 24 Hrs of occurrence/notice of incidence	Copy of FIR lodged by Contractor

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MONTHLY PERFORMANCE EVALUATION OF CONTRACTOR

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Project		Vendor			Package/Unit	
SL	Parameter for Measurement	Classification	Max Score	Score Obtained	Measurement Key/Scheduled date	Supporting Documents`
#6.06	Number of times written(email, letters etc.) warning issued for non-availability/ use of improper Fall protection and rescue arrangement as lifeline, fall arrestors, safety net, hand-railings, covered floors, man-basket, rescue basket & kit etc. by the contractor	HSE & SA	2		Total number of non-compliances	Daily Log Book entry/Incident Registers/letter references
#6.07	Number of times punitive fines imposed for unsafe practices as per contract like non-availability/use of PPEs as safety shoes, helmets, goggles, gloves, lifeline, safety belts etc.	HSE & SA	1		Total number of non-compliances	Non-compliance intimation documents from BHEL site
#6.08	Percentage compliance to Emergency preparedness and response plan: Portable Fire-extinguishers, Buckets, Fire-wardens, display of emergency numbers, mock-drills, Hazard Identification and Risk Assessment(HIRA) etc.	HSE & SA	1		Compliance should be 100% as per HSE Plan or as finalized in Safety Meetings	Non-compliance intimation documents from BHEL site
#6.09	Number of times the agency has defaulted on display of safety posters / safety slogans / safety barriers/emergency numbers etc. in identified areas	HSE & SA	0.5		Total number of instances	Non-compliance intimation documents from BHEL site
#6.10	Non compliances observed during HSE and Safety Audit	HSE & SA	0.5		Total number of non-compliances	Non-compliance intimation documents from BHEL site, Audit Reports
#6.11	Cumulative number of days in the month, non-availability of First Aid Kit, First Aider & Emergency Vehicles/Ambulance.	HSE & SA	0.5		Cumulative number of days	Non-compliance intimation documents from BHEL site
#6.12	Number of days taken for submission of Root Cause analysis (RCA) for the accident from the cut-off date intimated by BHEL for submission of RCA	HSE & SA	0.5		Number of days delayed/Scheduled date is cut-off date intimated by BHEL	Daily Log Book entry/Incident Registers/letter references
#6.13	Non conductance of training (induction, job specific, height work etc.), tool box meeting and health check-up as per Contract requirements	HSE & SA	0.5		Number of incidences of non-conductance during the month	Daily Log Book entry/Incident Registers/letter references
Total			100			

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Project		Vendor			Package/Unit	
SL	Parameter for Measurement	Classification	Max Score	Score Obtained	Measurement Key/Scheduled date	Supporting Documents`
	Less Deduction in Score Due to Major Accidents (Fatal, Permanent Disability or bodily injury by which person injured is prevented to resume to work within 48 hours or more after accident,, Major Damage to Equipment etc.) @ 3 points/ accident					
	Less Deduction in Score Due to Minor Accidents(All Others) @ 1 point/ accident					
	Less Deduction in Score Due to not Maintaining of Labour Colony (if applicable) as per BHEL HSE policy @2 points in a month on verification any day					
	Final Score					

Performance Score Summary for the Month	Total Score	Score Obtained
QUALITY	10	
PERFORMANCE	50	
RESOURCES	20	
SITE INFRASTRUCTURE & SERVICE	5	
SITE FINANCE	5	
HSE & SA	10	
OTHERS (deductions if any)	0	
TOTAL	100	

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