

BIDDOCUMENT

Nameofthework:

"Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash Pond-A & C"

CoverPage	01Page
СоруоfNIT	02Pages
InstructiontoBidders	01Page
GeneralConditionsofContract	121Pages
Safety, Health&Environment (SHE) Rules & Regulations for Contractors	36Pages
RulesandRegulationsofthee-ReverseAuction	04Pages
Scope, Technical Specification & Special Conditions of Contract	3Pages
BOQ&BlankPriceBidFormat	1 Page

SAFE&CLEANPOWERISOURCOMMITMENT

ODISHAPOWERGENERATIONCORPORATIONLIMITED

IbThermalPowerStation, Banaharpali, Jharsuguda– 768234 (ODISHA)

Email:satya.tarai@opgc.co.in,sanjit.mohanty@opgc.co.in,bkmishra@opgc.co.in



ODISHAPOWERGENERATIONCORPORATIONLIMITED IbThermalPowerStation, Banaharpali

Nameofthework:"Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash Pond-A & C"<u>BidDocument&InstructiontoBidders</u>

BidDocument

TheBiddocumentsconsistofthefollowingdocuments:

- 1) CopyofNIT
- 2) InstructiontoBidders
- 3) GeneralConditionsofcontract
- 4) TechnicalSpecification&SpecialConditionsofContract
- 5) Safety, Health&Environment (SHE) Rules & Regulations for Contractors
- 6) IntegrityPact (if applicable)
- 7) RulesandRegulationsofthee-ReverseAuction
- 8) BOQ&BlankPricebid

The bids complete in all respect must be submitted in two parts namely **Techno-commercial part** and **Pricepart**. The envelopes containing the respective parts must be sealed and super scribed with tender

enquiry number, Name of the work and the name of the part. Both the envelopes should be kept in a thirden nvelope and sealed and superscribed with tender enquiry number and Name of the work.

NB:Thebiddocumentsarenottransferable.

Techno-CommercialBid:

The bidder must submit the following along with the techno-commercial bid:

- 1) EMD as per NIT in a closed envelope. The EMD amount will not be disclosed to the bidders during opening of Techno-Commercial Bid.
- 2) Photo copies of GST Registration Certificate, Provident Fund Registration Certificate and MSME (Micro/small/medium)/NSIC/SSI status of your firm and ESI Registration Certificate
- 3) Signed & Stamped Bid Documents (all pages) as a token of acceptance.
- 4) Filled in and signed formats as specified in Annexure of GCC.
- 5) Signed & Stamped Rules and Regulations of the e-Reverse Auction.
- 6) Credentials in support of qualifying requirements.
- 7) Commercial terms and conditions and deviation statement.
- 8) Un-priced Bid showing quoted/not quoted.
- 9) ESI Registration Certificate



ODISHA POWER GENERATION CORPORATION LIMITED

(A Government of Odisha undertaking)

AT-IB THERMAL POWER STATION, PO: BANAHARPALI, DIST: JHARSUGUDA, ODISHA-768234 Phone no: (Land Line No. 06645-289232/221/355/356/245)

NOTICE INVITING TENDER

OPGC invites sealed bids from bona fide and financially sound Registered Agencies /Firms /Companies forexecution of the following Works for its Thermal Power Plant at Banharpali.

Works Tenders: NIT No. ITPS/CC-22/2023-24/20, Date: 25/01/2024						
S/ N	Name of the work	Tender cost	EMD (Rs.)	Contract Period	Bid Sale/ Issue date	Date of receipt & submission /Opening of Bid
1	Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash Pond-A & C	Rs.2000/- including GST	5,94,000/-	As per Bid Document	27.01.24 to 10.02.24	Up to 15:00 Hrs on 12.02.24/ 15:30 Hrs onwards on 12.02.24
2	Supply & Installation of Geo- composite Net on downstream slope of Ash Pond-A dyke from RL 199 to RL 202 (1500 mtr length)	Rs.2000/- including GST	1,55,000/-	As per Bid Document	27.01.24 to 10.02.24	Up to 15:00 Hrs on 12.02.24/ 15:30 Hrs onwards on 12.02.24
3	Civil work to facilitate installation of Geo-composite Net in downstream slope of Ash Pond A dyke (1500 mtr length)	Rs.1000/- including GST	62,000/-	As per Bid Document	27.01.24 to 10.02.24	Up to 15:00 Hrs on 12.02.24/ 15:30 Hrs onwards on 12.02.24
4	Deployment of 6 nos. of Safety Rovers at ITPS, OPGC-II for one year	Rs.1000/- including GST	86,000/-	As per Bid Document	25.01.24 to 08.02.24	Up to 15:00 Hrs on 09.02.24/ 15:30 Hrs onwards on 09.02.24
5	Chemical Treatment of Circulating Water at ITPS, OPGC-I	Rs.2000/- including GST	1,93,000/-	As per Bid Document	01.02.24 to 20.02.24	Up to 15:00 Hrs on 21.02.24/ 15:30 Hrs onwards on 21.02.24

E-Reverse Auction (e-RA) shall be conducted forthe works at Sl. No. 1, 2, 3, 4 & 5. The Transaction Fees for e-Reverse Auction shall be deposited to the account of MSTC Limited directly.

The non-refundable **Transaction Fees towards e-Reverse Auction** as mentioned above shall be deposited by all Techno-Commercially qualified bidders directly to the account of MSTC before E-RA launch schedule. The date of conduct of E-RA shall be intimated in later stage to Techno Commercially qualified bidders via e-mail. Before participation in e-Reverse Auction, the bidder has to register in MSTC e-Procurement Portal well in advance and submit the E-RA fee amounting to the value intimated by M/s. MSTC Limited.

Cost of bid document (non-refundable) shall be paid by Demand Draft in favour of OPGC Ltd. drawn on State Bank of India (Code-9510) / Union Bank of India (Code-UBIN0806625) / Central Bank of India (Code-283899) payable at ITPS, Banharpali or ICICI Bank (Code-ICIC0003679) payable at Telenpali. Cost of bid document shall have to be submitted along with the bid and the DD towards the tender cost (separate from EMD) should be prepared on or before the last date of submission/receipt of tender, otherwise the bid shall be liable for rejection. Small scale industries/National Small-Scale Industries Corporation/ MSME firms are exempted from payment of Cost of bid document only if they are entitled for

exemption of the offered service. Tenderers seeking exemption shall claim in advance along with the photocopy of Valid Registration Certificates at least two days before the due submission date. However, OPGC reserves the right to accept/ reject the exemption request if the same is found unauthenticated or not relevant to the offered item. In case of any discrepancy found between tender document submitted by the agency and the master copy in our office, the latter should prevail. No claim on this account shall be entertained. Complete and signed sealed bids in hard copy form only shall be received at Contract Cell, ITPS. Bids shall be opened at Contract Cell, ITPS in the presence of the bidders or their authorized representatives, if present at the time of opening. If the last date of issue / receipt / opening happens to be a HOLIDAY, the tender will be issued/ received / opened at the respective time on the next working day. The photocopies of all the supporting documents required for participating in the tender mentioned in NIT/Tender paper shall be submitted along with the bid; otherwise, the bid is liable for rejection. Bids without EMD will be rejected outright.

NB: Bidders having the requisite qualifying requirements as specified in the bid document shall only be considered for tender evaluation.

Bids received after stipulated date & time shall not be entertained. OPGC shall not take any liability on account of any postal/courier delay. OPGC reserves the right to accept / reject any or all tenders, seek additional clarifications, split up the scope among eligible bidders or cancel the tender altogether without assigning any reasons thereof.

Important: The detailed NIT along with Terms and Conditions are available for download at OPGC website at www.opgc.co.in. Addenda/Corrigenda/ Extensions, if any, will be notified on the OPGC website only and will not be published in any other media. Interested companies or entities may visit OPGC website for the tender timeline and other details.

GM-CONTRACT

SAFE & CLEAN POWER IS OUR COMMITMENT

OPGC encourages all existing or new vendors/suppliers to register with us as empaneled vendors. Please visit our website www.opgc.co.in for details.

InstructionToBidders:

- 1) ThebidscompleteinallrespectmustbesubmittedinasealedenvelopesuperscribedwithTenderEnquiryNo. ,Nameofthework,DateofsubmissionandopeningoftheTender.
- 2) Thebiddocumentsarenottransferable.
- 3) Thebiddermustsubmitthefollowingalongwithhisbid:
- (a) Bid Security of Rs.44,62,000/- (Rupees Fourty-four lacs Sixty-two Thousand Only) in shape of DemandDraftdrawninfavourofOPGCLtd.payableatStateBankofIndia(code-9510)/UnionBankofIndia(C ode-UBIN0806625) / Central Bank of India (code-Belpah)/ ICICI Bank (Code-ICIC0003679) payable at Telenpaliwithoutwhichtheofferwillbeoutrightlyrejected.EMDwillbereturnedtotheunsuccessfulbidder swithinfifteendaysafterawardofthework.NointerestshallbepayableonEMD.
- (b) Documents in support of his fulfilling the qualifying requirements.
- (c) Original price bid duly filled in. Breakup must be submitted separately. The offered price shall be clearlywritten in English (clearly hand written or typed) both in words and figures and shall be free from

any aberrations, deletions, corrections and overwriting. Incase of any illegibility of the offers ubmitted by bid der the interpretation by OPGCs hall be final and binding on the bidder.

- 4) AllthepagesofBidDocumentsignedbythedulyauthorizedrepresentative&stampedoneachpageasatoken ofacceptance.
- 5) Bidders are advised to submit the tender based strictly on the terms and conditions, special conditionsandspecificationscontainedinthebiddocumentsandnotstipulateanydeviationsinnormalcase. Thepricequoted should be valid for 180 (One Hundred Eighty) days from the date of opening of tender i.e. Part-1(Techno-CommercialBid)
- 6) OPGCreservestherighttoevaluatethequotationonsuchdeviationshavingfinancialimplicationsbyaddingt hecostdeterminedbyOPGC.
- 7) Whereveritismentioned in the specification that the biddershall perform certain work or provide certain faci lities, it is understood that he shall do so at his cost.
- 8) BeforesubmissionofBid,thebiddersarerequestedtocarryoutdetailsurveyandmakethemselvesfullyconv ersant with the site conditions, safety and health aspects etc. so that no ambiguity arises in theserespects subsequent to submission of the Bids. No relaxation or request for revision of quoted/acceptedratesshallbeentertainedsubsequenttotheopeningofbids.
- 9) The bidder has to quote considering the minimum wage applicable for different categories as per OdishaGovt.notification.Anypricebidreceivedlessthantheminimumwageofdifferentcategoryshallbelia bleforrejectionevenafteropeningofpricebid.
- 10) IssuanceofBidDocumentstoanybiddershallnotconstruethatsuchbidderisconsideredtobequalifiedfora wardofthework.
- 11) Small scale industries/National Small Scale Industries Corporation/ MSME firms are exempted from payment of Earnest Money Deposit only if they are entitled for exemption of the offered service. Tenderers seeking exemption shall claim in advance along with the photocopy of Valid Registration Certificates at least two days before the due submission date. However, OPGC reserves the right to accept/ reject the exemption request if the same is found unauthenticated or not relevant to the offered item.
- 12) OtherInstructionstobefollowedduringsubmissionofBid:
- a) Biddersareadvisedtosubmitthetenderbasedstrictlyonthetermsandconditionsandspecificationscontain edinthetenderdocumentsandnotstipulateanydeviationsinnormalcase.

- b) OPGCreservestherighttoevaluatethequotationonsuchdeviationshavingfinancialimplicationsbyaddingt hecostdeterminedbyOPGC.
- c) Whereveritismentioned in the specification that the contractor shall perform certain work or provide certain facilities, it is understood that the contractor shall do so a this cost.
- d) BeforequotingtheratestheBiddershouldgothroughthespecifications,scopeofworketc.andgethimselfful lyconversantwiththem.Thebidshould**includecostofmobilizationandcosttoadheretoallsafety norms** as described in the tender. No relaxation or request for revision of quoted/accepted ratesshallbeentertainedsubsequenttotheopeningofbidonaccountofmobilizationorSafetycosts.
- e) The details of items in the price schedule shall be read in conjunction with the corresponding technicalspecifications. Items of work provided in the price schedule but not covered in the technical specificationsshallbeexecutedstrictlyasperinstructionsofEngineerincharge.
- $f) \qquad The Bidderschall quoterates strictly as perthe price bid format.$
- g) BiddershallalsoindicatethecostofPPEs(in%)includedinthePriceBid.
- h) OPGCreservestherightstosplitthescope&quantitytomorethanoneagencyamongthebidders.
- i) OPGCreservestherightstocancelthetenderwithoutassigninganyreasonsthereof.
- j) Bidders are advised to submit the tender based strictly on the terms and conditions and specificationscontained in the tender documents and not stipulate any deviations in normal case.
- k) OPGC reserves the right to evaluate the quotation on such deviations having financial implications byaddingthecostdeterminedbyOPGC.
- I) Wherever it is mentioned in the specification that the contractor shall perform certain work or providecertainfacilities, it is understood that the contractor shall do so a this cost.
- m) Before quoting the rates the Bidder should go through the specifications, scope of work etc. and gethimselffullyconversantwiththem. The bidshould **includecostof mobilization and costto adhereto allsa fety norms** as described in the tender. No relaxation or request for revision of quoted/accepted ratesshall been tertained subsequent to the opening of bidon account of mobilization or Safety costs.
- n) The details of items in the price schedule shall be read in conjunction with the corresponding technicalspecifications. Items of work provided in the price schedule but not covered in the technical specificationsshallbeexecutedstrictlyasperinstructionsofEngineerincharge.
- The Bidders shall quote rates inclusive of the complete cost towards consumables, tools and tackles, equipments, labour, levies, taxes and duties if any, all safety PPE's as per OPGC norms to all workmen, rectification, maintenancetillhandingover, supervision overheads, profits and all lincidental char gesnotspecificallymentioned but reasonably implied and necessary to complete the work according to contr act.
- p) BiddershallalsoindicatethecostofPPEs(in%)includedinthePriceBid.
- q) OPGCreservestherightstosplitthescope&quantitytomorethanoneagencyamongthebidders.
- r) OPGCreservestherightstocancelthetenderwithoutassigninganyreasonsthereof.
- s) OPGC reserves the rights of accepting the whole or any part of the tender and bidder shall be bound toperform the same at the irquoted rates.

Disclaimer:

Thesedocumentsarepublishedinourwebsiteonlyforthepurposeofbiddersinterestedtoparticipateinthe Tender. OPGC shall not be held responsible in any manner in the event of any unauthorized usages ofthesedocumentsotherthantheintendedpurpose.

 ${\it OPGC} reserves the rights of accepting the whole or any part of the tender and bidder shall be bound to perfor$

mthe sameattheirquotedrates.

PRE-QUALIFICATIONCRITERIA

NameofWork:-Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash

Pond-A & C

Biddershavingthefollowingcriteriashallonlybeconsidered,tobequalifiedintheTechno-commercialThe bidders must meet the following Qualifying Requirements:

1. Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 300 Lakhs or more. Audited Balance Sheet and profit & loss A/C must be submitted along with the Techno-commercial Bid.

AND

- 2. Experience of having successfully completed similar works during last 5 years ending last day of month before the one in which applications are invited should be either of the following: -
- a. Three similar completed works costing not less than the amount equal to 50 Lakhs.
- (or)
- b. Two similar completed works costing not less than the amount equal to 100 Lakhs

(or)

- c. One similar completed work costing not less than the amount equal to 150 Lakhs
- Definition of "similar work" Similar of work refers to Earth work in excavation & backfilling, turfing work in ash pond, Construction of drains, Loading and lifting, Transportation, Mining related work on HMR, Rental and quantity basis. Sufficient documentary proof (i.e. Work Order and Completion Certificate of similar work) in support of the above must be submitted along with the Techno-commercial Bid.

AND

3. The bidder must have own Provident Fund Code, GST Certificate and Income Tax PAN. Photocopies of these documents must be submitted along with Techno commercial Bid.

AND

- 4. The bidder must have minimum machineries & equipment's of his own / *hiring basis as per the following:
- 1. Hydraulic excavator 210 or above model (Bucket capacity 1.5 cum or more): 5 Nos.
- Operator have valid HMV/Transport license issued from any RTA/RTO of Indian state.
- Billing on hourly basis and run hours verification on daily basis by respective incharge. Must ensure for Equipment availability 85%.
- Excavator must not age more than 10 years
- Bucket Capacity should be 1.5 CUM or above.
- Should have cabin assess.
- Should be equipped with safety features
- If the excavator is breakdown additional excavator to be provided within 24 hrs.
- The equipment should be engaged for 24 hours for 6 Months.
- All safety features as per the DGMS Regulation/circular shall be equipped.
- 2. Dozer D-155 or above model: 2 Nos.
- Operator have valid HMV/Transport license issued from any RTA/RTO of Indian state.

- Billing on hourly basis and run hours verification on daily basis by respective incharge. Must ensure for Equipment availability 85%.
- Dozer BD155 must not age more than 10 years
- Capacity should be 324 HP or above
- Should have cabin assess.
- Should be equipped with safety features
- If the dozer is breakdown additional dozer to be provided within 24 hrs.
- The equipment should be engaged for 24 hours for 6 Months.
- All safety features as per the DGMS Regulation/circular shall be equipped.

Documentary proof must be submitted along with the Techno-commercial Bid.

*Hiring Basis: Bidders, who do not possess the above machineries & equipment's of their own, mustsubmit sufficient documentary proof i.e. Agreement with the owner from which the equipment is hired along with ownership documents of the machineries of being able to arrange the same on hire.Otherwise,theirbidswillnotbe considered.

AND

5. Safety Requirement: Bidder Loss Time Hours must have been less than 200 Hours in last 3 years. (Contractor's Self Certification)

AND

6. The bidders should not have been disqualified/ black listed in any public/ Govt. Sector during the last 05 years for the similar nature of job.

NOTE: The bidders who are found qualified in above will be invited for the opening of the price bids.

Documents to be submitted in support of QR

- 1. Relevant PO copy
- 2. Any other documents in addition to the above which the applicant wants to submit.

Notes: In case where audited results of the last preceding financial year are not available, certification of financial statements from a practicing Chartered Accounts shall also be considered acceptable.

- Note:
- TheagencymustfillupthechecklistfortheabovequalifyingCriteriarequirementinthetechnica lbidmarkingpagenumberonthedocumentsinthetechnicalbid.
- TendersubmittedwithouttheaboveTechno-

 $\label{eq:commercial} Commercial requirements shall be liable for rejection.$

- The bidders who are found qualified in a bove will be invited for the opening of the price bids.
- Forallqualificationcriteriaallsupportingdocumentstobeprovided.
- Tenders submitted without the above techno-commercial requirements shall be liable for rejection.

Owner reserves theright to obtain necessary documents andto assess the qualification of the Bidder, subsequent to submission of bid, as deemed necessary by Owner to establishbidder's qualification.

PriceBid

- 1) Original price bid duly filled in, signed & stamped on each page shall be submitted. Anybreakup(ifrequired)mustbesubmittedseparately.Theratesofferedbythebiddershallbe clearlywritteninEnglish(clearlyhandwrittenortyped)bothinwordsandfiguresandshallbefre efromanyaberrations,deletions,correctionsandoverwriting.Incaseofanyillegibilityofthe offer submitted by bidder the interpretation by OPGC shall be final and binding on thebidder.
- 2) Insertion, postscript, addition and alterations hall not be accepted after submission of the bid.
- 3) Thequotedpriceshallbeall-inclusivebasisexceptGST(Taxes, duties, othergovernmentlevies except GST etc.) and shall remain firm during entire tenure of the contract and shallnotberevisedunderanycircumstancesforwhatsoeverreasonexceptasgivenin(4)below .GST applicability and rate of GST should be shown separately and shall be paid againstdocumentaryevidence.
- 4)
- 1. Anyincrease/decreaseintheGST,Cessandothertaxesthereonwillbereimbursed /adjustedasperactualagainstdocumentaryevidence.
- 2. Additional amount due to imposition of new tax by Govt. relevant to this work will bereimbursedbyOPGCasperactualagainstdocumentaryevidence.
- 3. AnychangeinIncomeTaxwillbebornebytheContractor.
- 4. Quotedrate(validonthedateofopeningoftender)shallbetreatedasbasepriceand all-inclusivebasisexceptGST.
- 5. Anyadditionalpaymentduetochangeintaxstructurewillbeadmissibleifthechangeis effective during the scheduled completion period. No such extra payment shall bemade beyond the stipulated completion date if the delay is due to the fault of thecontractor.Noclaimshallbeadmissibleaftercompletionofwork.
- 6. Nodeviationshallbeallowedinthepricebid.
- 5) In the Price Part, the bidder must also submit a CD containing theso ftcopy of price bid (with detai leditemwise quoted prices) in Excel format (non-

pdf)alongwith the signed & stamped hard copy of price bid. The prices quoted in the hard copy of price bids hall be taken as final & binding.

EVALUATION OF BIDS

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1.0 Opening of Bids

The Techno-Commercial bid shall be opened at a predetermined time, venue & date in presence of the Bidder(s) or their authorized representative(s) who may like to be present. Partner, Director or permanent employee of the firm duly authorized only can be the authorized representative. Price bid shall be opened at a future date under intimation to all technically qualified Bidders and in presence of them or their authorized representatives who shall participate.

2.0 Preliminary Examination of Proposals

OPGC will examine the Proposals to determine whether they are complete, whether required EMD have been furnished, whether the documents have been properly signed, and whether the Proposals are generally in order. If a Proposal is not substantially responsive, it shall be liable for rejection by OPGC. OPGC's determination of Proposal's responsiveness will be based on the contents of the Proposal itself and any written clarifications, if sought for by OPGC and submitted by the Bidder.

3.0 Evaluation & Comparison of Bids

3.1 Basis for Technical Evaluation

OPGC will carry out a detailed evaluation of the bids previously determined to be substantially responsive, in order to ascertain whether the technical aspects are in accordance with the requirements set forth in the Bid Document. OPGC will examine and compare the technical aspects of the bids on the basis of the information supplied by the bidders.

The evaluation committee, appointed by OPGC as a whole, evaluates the proposals on the basis of their responsiveness to the Mandatory Requirement criteria as stipulated in section "Instructions to the Bidder" of this Bid Document. Proposal shall be rejected at this stage if it does not respond to mandatory requirements criteria. Only those bidders, who meet all the mandatory requirements, shall be considered for e-Reverse Auction and/or price bid opening.

3.2 Basis for Price Evaluation:

The Techno-commercially qualified bidders will participate in the Reverse Auction through MSTC Limited. The price may be finalized based on Reverse Auction or Sealed Price Bid. OPGC reserves the right to go for reverse auction after opening of sealed Envelope price bid, submitted by bidder. This will be decided after techno-Commercial Evaluation. All Bidders have to give their acceptance for participating in Reverse Auction as per "Rules and Regulations of the e-Reverse Auction" which shall be binding on the bidders. Non Acceptance to participate in Reverse Auction may result in non-consideration of their bids, in case OPGC decides to go for reverse auction.

OPGC will examine the Price Proposals to determine whether any arithmetical errors have been made, whether the documents have been signed, and whether the Proposals are generally in order. Arithmetical errors will be rectified on the following basis.

- a) If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected.
- b) If there is a discrepancy between words and figures, the amount in words will prevail. If a Bidder does not accept the correction of errors, its Proposal will be rejected and its bid security may be forfeited.
- **3.3** The evaluation shall be based on the evaluated cost of completing the contract in compliance with all commercial, contractual and technical obligations under this Bid including taxes, duties & levies etc. The

rates of taxes, duties and levies as applicable on seven (7) days prior to the date of Techno-commercial bid opening shall be considered for the purpose of evaluation.

4.0 Price Loading:

All the bidders should quote as per tender terms and conditions without any deviation. OPGC reserves the right to reject the bid in case of any deviation taken by the bidder or ask to withdraw such deviation or appropriately load the component on the quoted price.

5.0 Award Criteria

OPGC will award the contract to the successful bidder whose bid has been determined to be substantially responsive and to be economically advantageous, which will be established by Lowest Price basis (L1) amongst the qualified bidders in Techno-Commercial evaluation as per **Clause No. 16** of **"Rules and Regulations of the e-Reverse Auction".**

6.0 Negotiation & Award

The selected bidder will be notified in writing by OPGC inviting him for further negotiations. Negotiations will be held only at ITPS, Banaharpali. On finalization of negotiation, to the mutual satisfaction of both the parties, OPGC shall award the Work order to the selected bidder.

THE VENDOR SHALL SIGN ON EACH PAGE OF THE SPECIAL CONDITIONS AND RETURN THE DOCUMENT ALONG WITH THE OFFER AS A TOKEN OF ACCEPTANCE TO ALL TERMS AND CONDITIONS WRITTEN HEREIN.

Rules and Regulations of the e-Reverse Auction

Buyer's	Ib Thermal Power Station	
Name/Owner	(A Unit of Odisha Power Generation Corporation Limited)	
Auction To Be Conducted By	MSTC Limited	
Name of the work	Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in	
Name of the work	Ash Pond-A & C	
	Auction Date: [To be intimated later]	
Date & Time Of Auction	Online e-Reverse Auction Time : [To be intimated later]	
	URL: <u>www.mstcecommerce.com/eprochome/opgc</u>	
Special Instructions	Bidding in the last minutes and seconds should be avoided in the bidders own interest. Neither the Service Provider nor OPGC will be responsible for any lapses /failure on the part of the vendor, in such cases.	
	5 minutes	
Auto Extension of Closing Time	NB: If any bidder quotes 5 minutes before closing time, the closing time will be extended automatically for another 05 minutes and so on till 05 minutes idle time between the bids.	
Decremental Value	Minimum decrement will be intimated before E-RA	
Start Price	The start bid price as decided by OPGC tender committee shall be displayed at MSTC Limited auction platform during start of the e-RA.	

- Bidding would be conducted through two (02) stage process comprising of technical bid in which the bidder would be required to provide the details regarding compliance with the elegibility conditions, and financial bid comprising of the Initial Price Offer (IPO) and the Final Price Offer (FPO) through E-RA.
- 2. The IPO is to be submitted along with the tender document separately in a sealed envelope and super scribed with "PRICE BID" along with the tender enquiry number& Name of the work. Both the techno-commercial & price bid envelopes should be kept in a third envelope sealed and super scribed with tender enquiry number and Name of the work.
- **3.** The financial bid process will comprise of two rounds. In the first round, the IPO of the technocommercially qualified bidders will be opened & ranked on the basis of ascending order for determination of qualified bidders. Best five (L-1 to L-5) bidders would be qualified bidders for E-RA and such qualified bidders shall be eligible to participate in the E-RA and submit their FPO with respect to the bid.
- **4.** In case of tie for L5 bid, all the bidders offering L5 will be allowed for e-RA.
- 5. Bidders must be a registered user to bid for Buyer ("OPGC") in MSTC portal <u>www.mstcecommerce.com/eprochome/opgc</u>. Bidders need to have their Login ID and Password prior to e-Reverse Auction.
- 6. Bidders have to participate as per the e-Reverse Auction time and date communicated to them & based upon e-Reverse Auction invitation for particular Auction.
- 7. Quotation once submitted through e-Reverse Auction cannot be withdrawn /deleted. Otherwise, the EMD submitted by the bidder shall stand forfeited.
- 8. Buyer reserves the right to ban the bidder from participating in e-Reverse Auction without any explanation/reason at any stage of e-Reverse Auction.
- 9. Buyer reserves the rights to extend / cancel the e-Reverse Auction.
- **10.** E-Reverse Auction shall be conducted in Indian Rupees only.
- 11. All prices submitted by Bidder in e-Reverse Auction shall be as per Tender's Terms & Conditions.
- **12.** Validity of bids: As mentioned in Tender Document.

- **13.** Written Confirmation shall be taken in advance regarding participation in the e-Reverse Auction to buyer along with the Authorized person name and details.
- **14.** Buyer reserves the right to award the Purchase Order / Service Order as per buyer's discretion irrespective of Live Auction Rank.
- **15.** Buyer reserves the right to repeat the e-Reverse Auction of same package.
- 16. After completion of e-Reverse Auction, the lowest evaluated bid of all the bids submitted in manual and e-Reverse Auction process shall be considered for award of the Purchase order / Work order.
- **17.** The bidders shall quote from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.
- **18.** If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, OPGC at its own discretion shall debar the bidder from the e-Reverse Auction/Tender and future participation also.
- **19.** OPGC reserves the right to cancel the e-Reverse Auction process/ tender at any time, before ordering, without assigning any reason and may go for manual opening of price bids as per standard practice.
- **20.** OPGC shall not be liable for any interruption or delay in accessing the MSTC portal irrespective of any cause. In such cases, the decision of OPGC shall be binding on the bidders.
- **21.** Other terms and conditions shall be as per NIT, bidder's techno-commercial Bid and other latest correspondences/ final confirmations, (if any) against the NIT.
- **22.** If any item is not quoted by a bidder, the maximum price quoted by the other participated bidders for that item shall be considered for arriving evaluated price of that bidder.
- **23.** The total L1 Price obtained through e-Reverse Auction shall be proportionately distributed among each line item in line with the price quoted and evaluated in the hard copy price bid.
- **24.** The price quoted in e-Reverse Auction is the total price for all the items and quantity as per Price Schedule of NIT irrespective of any omission by the bidder in the hard copy price bid.
- **25.** In case, the L1 Bidder in e-Reverse Auction and manual Tender happens to be the same bidder, then minimum price among both shall be considered as L1. If the bidder disagrees to accept the said condition, then his EMD shall be forfeited. Apart from this the bidder will be debarred from participating in future e-Reverse Auction/Tender of OPGC.
- **26.** Each Bidder shall get the final loading factor (%age of the quoted price) from OPGC before e-Reverse Auction for the deviations, if any, taken by them in the techno-commercial bid.
- **27.** The Price quoted in the e-Reverse Auction shall be inclusive of all applicable taxes, duties and levies, deviations considering the loading factor (got from OPGC/Tender Condition as mentioned in above clause) on his quoted price. However, the GST shall be paid extra as applicable and not included in the loading factor as well as total price.

UNDERTAKING

I hereby undertake that I agree to the "Rules and Regulations of the e-Reverse Auction" mentioned herein.

Signature:

Name:

Date:

Company Name:

Seal:

GENERALCONDITIONSOFCONTRACT



ODISHAPOWERGENERATIONCORPORATIONLIMITED7^{TH.} FLOOR,ZONE-A,FORTUNETOWERS,

CHANDRASEKHARPUR,BHUBANESWAR–751023 (ODISHA)

ODISHAPOWERGENERATIONCORPORATIONLIMITED FLOOR, ZONE – A, FORTUNE TOWERS,CHANDRASEKHARPUR,BHUBANESWAR-7510 23

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INSTRUCTIONTOBIDDERS

VOLUME-I

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ODISHAPOWERGENERATIONCORPORATIONLTDIB THERMAL POWER STATIONBANHARPALI-768234,DIST.JHARSUGUD

Α

TENDER FOR

Nameofthework: "Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash Pond-A & C"

- 1. Tobesubmittedby15:00Hrsofdt.12/02/2024toContractCell,ITPS,Jharsuguda.
- Techno-commercial bids to be opened in presence of Bidders or their duly authorizedrepresentativeswhomayliketobepresentat15:30Hrsonwardsondt.12/02/2024in theofficeofContractCell,ITPS.

IssuedtoM/s.....

Signatureofofficerissuingthedocuments....Sd/-

Designation: GM-Contracts, ITPS.

Date:

ODISHAPOWERGENERATIONCORPORATIONLTDIBT HERMALPOWERSTATION, BANHARPALI

NOTICEINVITINGTENDER

- 1. TendersareinvitedonbehalfoftheOPGCLtd.forthework"Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash Pond-A & C"
- 2. The Tender & rates shall be in the prescribed form provided by OPGC.
- 3. The works are required to be completed as per SCC, in accordance with phasing, if any, indicated in the Tender documents.
- 4. NormallyBiddershavingcorrespondingclassoflicense,PFCode,ESIRegistration,GSTRegistration,ITPAN,expertisefortheworkrequiredtobeexecutedandfinancialcapacitywillbeconsidered.
- 5. The person who floats the NIT shall be the Accepting Authority herein after referred to as suchforthepurposeofthisTender.
- 6. ABiddershallproduceIncomeTaxPAN,GSTcertificatesandPF&ESIRegistrationnumber.
- 7. Tender documents consisting of plans, drawings, specifications, Schedule(s) of Quantities /Price Schedule of various classes of work to be done, the Conditions of Contract and othernecessary documents will be sold (soft copy only) on payment of Rupees As specified in NITin shape of Demand Draft in favour of Odisha Power Generation Corporation Ltd. drawn onStateBankofIndia(Code-9510)/UnionBankofIndia(Code-UBIN0806625)/CentralBankofIndi a (Code-283899)/ ICICI Bank (Code-ICIC0003679) on or after 27/01/2024up to 10/02/2024.Costoftenderpaperisnotrefundable.
- 8. Bidders are advised to inspect and examine the site and its surroundings and satisfy themselvesbefore submitting their Tenders as to the nature of the ground and sub-soil (so far as ispracticable and related to particular work), the form and nature of the site, nature of

work, capacity of concerned plant, present condition of the plant, labour force problem relating top resent Contract labour, custom & system of the local folk, means of access to the site, accommodation they may require and ingeneral shall themselves obtain all necessary information astorisks, contingencies and other circumstances which may influence or af fect their Tender. A Biddershall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunder standing or otherwise shall be allowed.

- 9. SubmissionofaTenderbyaBidderimpliesthathehasreadthisnoticealongwiththenoticeinviting tender advertised in the newspaper and all other tender documents and has madehimselfawareofthescopeandspecificationsoftheworktobedoneandoflocalconditionsan dotherfactorsbearingontheexecutionoftheworks.
- 10. A Bidder should quote his rates in figures as well as in words. The amount for each item shouldbe worked out and the requisite totals given. Special care shall be taken to write rates in figuresas well as in words, and the amounts in figures only in such a way that interpolation is notpossible. The total amount shall be written both in figures and in words. In case of figures, thewords 'Rs.' should be written before the figure of rupees and the words 'Paise' after the decimalfigures, e.g. Rs.2.15 P. In case of words, the words 'Rupees' should precede and the words'Paise' should be written at the end. Unless the rate is in whole rupees and followed by theword'Only'itshouldinvariablybeuptotwoplacesofdecimal.
- 11. In the case of item rate Tenders, only rates quoted shall be considered. Any Tender containingpercentagebelow/abovethescheduleofratequotedisliabletoberejected.Incaseoflu mpsumtenders,onlyquotedamountshallbeconsidered.

- 12. Any Bidder for the works shall not be witness in the Bid of any other Bidder for the same works. FailuretoobservethisconditionshallrendertheTenderoftheBiddertenderingaswellasoft hosewitnessingtheTenderliableforrejection.
- 13. Tendershallbereceived up to 15:00 Hrsofdt. 12/02/2024 and shall be opened at 15:30 Hrsonwards on the same day in the presence of those Bidders or their duly authorized representatives who may like to be present.
- 14. The Tender shall be accompanied by Earnest Money worth **Rupees As specified in NIT**The Earnest MoneyofferedshallbeinshapeofDemandDraft/PayOrderinfavour ofOdishaPowerGenerationCorporation Ltd drawn on State Bank of India (Code-9510) / Union Bank of India of India (Code-UBIN0806625)/CentralBankofIndia(Code-283899)/ICICIBank(Code-ICIC0003679)orBankguar anteeissuedbyanyNationalized/scheduledBankintheenclosedproforma.
- 14.1 The Tender shall be accompanied with letter of undertaking on non-judicial stamp paper of appropriate value in the prescribed format.
- 14.2 The Earnest Money shall be made payable without any condition/demure to the Owner ondemand.TheEarnestMoneyshallbevalidforaperiodofthree(03)monthsfromthedateofopeni ngofthepricebid
- 14.3 In consideration of the Owner opening and considering the Tender for purpose of award ofContract,theBiddershallkeephisTendervalidforaperiodof**onehundredeighty(180)days**from the date of opening of the Tender, during which period the Bidder agrees not to vary,alter or revoke his Tender either in whole or in part. If the Bidder however, fails to keep hisTender valid for one hundred eighty (180) days or varies its terms and conditions during thesaid period then the Owner shall be entitled to forfeit the Earnest Money amount without anynoticeorproofofdamagesetc.TheBiddershallsubmithisTenderasrequiredintheTenderdocu mentsalongwithletterofundertakingintheproformaenclosedherewith.
- 14.4 The Earnest Money of all unsuccessful Bidders will be returned within thirty (30) days after theawardoftheContract.
- 14.5 Any Tender not accompanied with **both Earnest Money and letter of undertaking or any ofthe two** in accordance with aforesaid provisions shall be rejected by the Owner as non-responsiveBid.
- 14.6 NointerestwillbepayablebytheOwneronthesaidamountcoveredunderEarnestMoney/otherse curitydeposits.
- 15 On finalization of Tender, Earnest Money of successful Bidder will be treated as part of the initialsecurityattheoptionofthesaidContractororshallbereturnedtothesuccessfulbidderathisop tion.
- 16 A Bidder shall submit the Tender which satisfies each and every condition laid down in this noticeandothertenderdocuments, failing which the Tender will beliable to be rejected.
- 17 TheOdishaPowerGenerationCorporationLtd.donotbindthemselvestoacceptthelowestoranyTe nderortogive any reasons for their decision. The Owner reserves the right to allow the Public Sector Undertakingspricepreference facilities as a dmissible under existing Govt. policy. Theprospective Bidders may apprise themselves of the relevant Govt. notification in this regardbefore submission of their bid. The Odisha Power Generation Corporation Ltd. reserves rightofaccepting the whole or any part of the Tender or split the totals cope of work a mongeligible Bid dersandBidder(s)shallbeboundtoperformthesameathis/theirquotedrates.
- 18 GST or any other taxon materials in respect of this Contract shall be payable by the Contract or and the Owner will not entert ain any claim what so ever in this respect.

19 Biddingschedule

DateofcommencementofsaleofTenderPaper	27/01/2024	
LastDateofsale of Tender Paper	10/02/2024	
Clarificationsoughtby the bidders	03/02/2024	
PreBidMeeting	05/02/2024	
Owner'sresponsetopre-bidmeeting/clarifications	06/02/2024	
LastdateforreceiptofTechnoCommercialBidsandPriceBids	3:00 PM On 12/02/2024	
OpeningofTechnoCommercialBids	3.30 PM On12/02/20	
	24	
OpeningofPriceBidsoftechno-commerciallyqualifiedbidders	Tobeintimated	
ContractAward	Tobeintimated	

ForandonbehalfofOdishaPowerGenerationCorporationLtd.Signature...**Sd/-**Designation:**GM-Contracts,ITPS.** Date:

PROFORMAOFLETTEROFUNDERTAKINGTOBESUBMITTEDBYTHEBIDDERALONGWITHTHISTENDER. (Tobeexecutedonnon-judicialstamppaperofrequisitevalue)

Ref:

Date:

То

OdishaPowerGenerationCorporationLtd.,IBTh ermalPowerStation, Banharpali.

(HereinafterreferredtoastheOwner)

${\sf I}/{\sf We have read and examined the following documents relating to (Name of the normal sector)} and {\sf Name of the normalized sec$

eworks)

- (a) NoticeinvitingTender
- (b) FormatforLetterofundertaking
- (c) GeneralConditionsofContractincludingContractorsLabourRegulations,ModelRulesforLabourWelfar e,SafetyCode,scheduleA&BAnnexureItoXVII.
- (d) SpecialConditionsofContractincludingScopeofWork
- (e) PriceSchedule/BillofQuantities
- (f) TechnicalSpecifications.
- (g) Drawings.

I/Weherebytenderforexecutionoftheworksreferredtointheaforesaiddocumentsupontheter msandconditionscontainedorreferredtothereinandinaccordanceinallrespectswiththespecification s, designs, drawings and other relevant details contained in Schedule of Quantities /Price schedule attached with the tender documents and the period (s) of completion as stipulated inSchedule'A'ofGeneralConditionsofContract.

In consideration of I/We being invited to Tender, I/We agree to keep the Tender open foracceptance for 180 days from the due date of opening of bid thereof and not to make anymodificationsinitsterms and conditions which are not acceptable to the Owner.

AsumofRs......isherebyforwardedinshapeofDemanddraftdrawnonState BankofIndia(Code-9510)/UnionBankofIndia(Code-UBIN0806625)/CentralBankofIndia(Code-28389 9)orBankguaranteeissuedbyanyNationalized/ScheduledBankintheenclosedproformaasEarnestMon eyinthemannerprescribedinclause15ofNITenclosedherewith.IfI/WefailtokeeptheTenderopenasaf oresaidormakeanymodificationsinthetermsandconditionsoftheTender,whicharenotacceptabletot heOwner,I/WeagreethattheOwnershall,withoutprejudicetoanyother remedy, be at liberty to forfeit the said earnest money absolutely. Should this Tender beaccepted, I/We hereby agree to abide by and fulfill all the terms, conditions and provisions of theaforesaiddocuments.

If, after the Tender is accepted, I/We fail to commence the execution of the works as provided in the conditions, I/We agree that the Owner shall without prejudice to any other right or

remedy beatlibertytoforfeitthesaidearnestmoneyabsolutely.

SignatureofBidder.....

Dulyauthorized to sign the Tenderon behalf of the (inblock capitals).....

		Date
d.		PostalAd
dr	·ess	Telegraphic
Ad	ddress	TelephoneNo
		FaxNo
E-	mailaddress.	

Witness.....

Date.....

Address.....

INSTRUCTIONTOBIDDER(S):

1.1 Sitevisit&collectionofinformation:

The Bidders are advised to visit the site, collect information regarding communication, transportation, banking facility, availability of skilled / unskilled labours, their customs, religious or otherwise culture, political environment, climatic conditions, education &

medical facilities etc. to their satisfaction and acquain twith the nature & condition of work prior to working out the price of the Tender.

- 1.2 BiddersareadvisedtosubmitTendersbasedstrictlyonterms&conditionsandspecificationconta ined in the tender documents and not stipulate any deviations. Should it howeverbecomeunavoidable,deviationsshouldbestipulatedintheprescribedproformaonlyin theformat in annexure VII of G.C.C. Owner reserves the right to evaluate the Tenders containingdeviationsbyloadingoroffloadingthecostofsuchdeviations.
- 1.3 Addenda/Corrigendaissuedtothistendermustbesigned&submittedwithtenderonduedate or on extended date if any. The Bidder should write clearly the revised quantities on theScheduleoforiginalTenderDocumentsandshouldpricetheworkbasedonrevisedquantities / conditions. All those who were issued tender documents prior to issue of addenda /corrigenda shall be provided with another set of fresh blank price schedule / schedule of itemsfreeofcost.TheBiddersshallsubmittheirtenderinthefreshschedule.ButhoweveriftheBid der has already submitted his tender prior to issue of such addenda / corrigenda, they shallresubmit a fresh offer marked on the envelope as "Amended Offer". The original offersubmittedbysuchpartyshallbedestroyedinpresenceoftheBidderonthedateofopening.

1.4 PreparationofBid:

TheBidder(s)shallsubmitthebidintwoparts, namely-

- 1) Part-I : TechnocommercialBid
- 2) Part-II : PriceBid

PART-I:TECHNO-COMMERCIALBID

A complete set of original Tender documents as specified in clause 3.1 of G.C.C. issued to theBidderexceptblankpricebid/billofquantitydulyfilledinasprescribedindifferentclausesof the Tender documents with signature & stamp in all pages as token of unconditionalacceptanceshallconstituteTechno-commercialBid.

 $\label{eq:constraint} The Biddershall enclose the following documents in this Bid.$

 a) Crossed Demand Draft for requisite amount only drawn in favour of Odisha Power GenerationCorporation Ltd or Bank guarantee issued by any Nationalized Bank/scheduled Bank

the enclosed proformain the manner prescribed inclause - 15 of NIT enclosed here with towards the Earnest Money without which the Tendershall beliable for summarily rejection.

- b) Details of work of similar nature and magnitude executed by the Bidder during last three years(WorksexecutedinnameofBidder)inAnnexure-IofG.C.C.
- c) DetailsofpresentcommitmentsoftheBidderinAnnexure-IIofG.C.C.

- d) DetailsofequipmentsinAnnexure-IIIofG.C.C.
- e) OrganizationchartshowingnumberofqualifiedEngineersandSupervisorypersonnelintherollo fthefirminAnnexure-IVofG.C.C.
- f) DulyfilledininformationaboutBidderasperAnnexure-VofG.C.C.
- g) ListofenclosuresasperAnnexure-VlofG.C.C.
- h) Exception&deviationstatementinAnnexure-VIIofG.C.C.
- i) DetailsofproposedorganizationinAnnexure-VIIIofG.C.C.
- j) DocumentsshowingannualturnoverinAnnexure-IXofG.C.C.
- k) PhotocopyofSalesTaxRegistrationCertificate,validGSTCertificateandIncomeTaxPAN.
- Photocopy of P.F. Registration Certificate, ESI Registration Certificate and GST registrationCertificateofappropriatecategoryissuedbycompetentauthority.
- m) PhotocopycopyoftheRegistrationofFirm/Company.
- n) Present & permanent Address for correspondence along with Telephone No,/Fax No./E-mailaddressetc.
- o) Anyothertechnicalinformation,Bidderwishestofurnish.
- p) LetterofundertakinginjudicialstamppaperofworthRs.5.00intheformatenclosed.
- q) Documentsinsupportofauthenticationofthepersonwhosignedthetender.Onlyproprietor,pa rtner,directorsorpermanentemployeewithduepowerofattorneyisrecognizedforsuchsignatu re.

Note: If required additional sheet may be used to furnish all above information but in theformatprovided in General Conditions of Contract.

The techno-commercial bid with all its enclosures as mentioned in clause 1.4 should be put inan envelope, sealed & superscribed as "TECHNO-COMMERCIAL BID". This envelope mustcontainNameofthework,NITNo.,DuedateofopeningandName&AddressoftheBidderon bottomlefthandcornerofthecover.

PART-II:PRICEBID

Pricebidshallinclude-

- a) Originalpricebid/scheduleofquantitydulyfilledin,signed&stampedoneachpageastoke nofunconditionalacceptanceshallconstitutethePriceBid.TheBiddershalltake utmost care in filling the tender documents corresponding to instruction toBidderandrelevantinformationelsewhereinTenderdocument.

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c) Thepricebidshallbeprepared in the manner prescribed invarious clauses of Tenderdocu ment and put in a separate sealed envelope super scribed as "PRICEBID". This envelope must contain Name of work, NITNO. at the top and Name & Address of the Biddero nleft hand bottom corner of the cover.

1.5 COMPLETEBID:

Both the Techno-commercial & Price Bid in separate sealed cover shall be put in a thirdenvelope, sealed&superscribedwithNameoftheWork,NITNo.,Duedateofopening.Thefu llname,postaladdress,telegraphicaddressandtelex/telephone/fax/E-MailoftheBiddershallb ewrittenonthebottomleftcorneroftheenvelope.

1.6 SUBMISSIONOFBID:

Completed Bid shall be submitted to the Owner within due date and during office hours only. The Tenders shall be put into a box, marked as Tender Box or handed over to Contract Cellagainstreceiptof the same.

1.7 OPENINGOFTENDER:

The techno-commercial bid shall be opened at a predetermined time, venue & date inpresence of the Bidder(s) or their authorized representative who may like to be present.Partner,directororpermanentemployeeofthefirmdulyauthorizedcanonlybeauthoriz edrepresentative.

Price bid shall be opened at a future date under intimation to all technically qualified Biddersandinpresenceofthemortheirauthorizedrepresentativeswhoshallparticipate.

1.8 CAUTIONTOBIDDER:

Thepersonwhoshallcometopurchasetenderdocuments, submitthe Tenderorparticipate in the opening of the Tender must abide by the safety rule of OPGC right from the plant gate. Someof the checkpoints are, the vehicle must have valid insurance & taxpaid road permit, valid driving license of the driver / Owner as the case may be. Persons with full shoes shall be allowed to enterthe plant & our plant gate shall provide other items such as hard hat, safety glass & visitor pass. Not more than 2(two) persons for one Tender shall be allowed to participate in Tender opening.

1.9 ALLPAGESTOBEINITIALED:

 $\label{eq:althepages} All the pages of {\sf T} ender documents shall be initialed. But first \& last pages of all volumes of documents shall be signed with date by the Bidders or their authorized representatives.$

1.10 RATESTOBEINFIGURES&WORDS:

The Bidder shall quote both in figures and in words for the rates and amount tendered by himin the Schedule of quantities / Price schedule forming part of the Tender document, in such away that interpolation is not possible. The amount of each item shall be worked out andentered and requisite total given for all items. The tendered amount for the work shall beenteredintheTenderanddulysignedbytheBidder.

If any ambiguities are observed in the rates & a mount given in words & figures the following procedures hall be followed:

- a) When there is difference between the rates in figures and words, rate which correspondst othe amount worked out by the Bidder, shall be taken as correct.
- $b) \ \ When the rate quoted by the Bidder in figures and wordstally but the amount is incorrect, th$

 $erate {\tt quoted by the Biddershall be taken as correct but not the amount.}$

- c) Whenitisnotpossibletoascertainthecorrectratebyeitherofabovemethods, the ratequ oted inwords shall be taken as correct.
- 1.10.1 The Biddershall quote in English language only.

1.11 CORRECTIONS&ERASES:

No erases or over writings are permissible. All corrections and alterations in the entries oftenderpapersshallbesignedbytheBidderwithdate.

1.12 DETAILS&SIGNATUREOFBIDDER:

1.12.1 The Tender shall contain the name, residence and place of business of person or personsmaking the Tender and shall be signed by the Bidder with his usual signature. Partnershipfirms shall furnish the full names of the partners in the Tender. It should be signed in

thepartnershipsnamebyallthepartnersorbydulyauthorizedrepresentativefollowedbythena meanddesignationofthepersonsigning. TenderbyaCorporationshallbesignedbyanauthorized representative and a power of attorney / authorization on its behalf shallaccompanytheTender. Acopyof constitution of the firm with names of all partners shall befurnished. In case of cooperative society, the authorized representative of the society will signthe Tender. Similar principle shall be followed in case of any Trust and Hindu Undivided Familybusiness.

1.12.2 WhentheBiddersignsaTenderinalanguageotherthanEnglish,thetotalamounttenderedor only rate quoted in maintenance Contract in addition be written in the same language.Thesignatureshouldbeattested,atleastbyonewitness.

1.13 ABNORMALRATES:

The Contractor is expected to quote the rate for each item after careful analysis of costinvolved for the satisfactory performance and completion of item work considering allspecifications and conditions of Contract. This will avoid loss of profit or gain in case ofcurtailment or change in specification forany other item. In case the rates quoted by theBidder's for any item are unusually high or unusually low it will be sufficient cause for therejection of the Tender unless the Owner is convinced about the reasonableness of theanalysisforratefurnishedbytheBidder(ondemand)afterscrutiny.

1.14 THESCHEDULE:

- 1.14.1 The work shall be executed strictly as per the Time Schedule, indicated in the tenderdocuments.
- 1.14.2 Monthly/weeklyworkprogrammewillbedrawnupbytheContractorbeforecommencementof work&submittedtoEngineer-in-chargeforapproval.Theprogramme&progress will be reviewed from time to time and if required, the programme may be re-scheduledbyEngineer-in-charge.TheContractorshallalsoberesponsibletoprovidematerial s within his scope in time to achieve the programme. In all matters concerning theextent of programme set out weekly and monthly, the decision of the Engineer-in-charge willbefinalandbindingontheContractor.

1.15 RECORDKEEPING:

Relevant records are to be maintained by the Contractor in day-to-day / monthly basis &furnished to Engineer-in-charge or his representative for scrutiny, Management InformationSystemandpaymentetc.

EndofVolume-I:Totalpages15

ODISHAPOWERGENERATIONCORPORATIONLIMITED7TH.

FLOOR, ZONE – A, FORTUNE TOWERS,CHANDRASEKHARPUR,BHUBANESWAR-7510 23

GENERALCONDITIONSOFCONTRACT

VOLUME-II

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SECTION-I

1.0 GENERAL

Odisha Power Generation Corporation Limited is a Govt. of Odisha undertaking and IbThermal Power Station, Banharpali is one of its units. The Ib Thermal plant is situated close toHirakudreservoirandatadistanceof40KmsfromJharsugudaRailwayJunctionand18Kmsfrom BelpaharRailwayStationinthestateofOdishabothonS.E.Railways.ITPSisatpresentoperating 2x210 MW & 2x660 MW coal based power plant. The management is lookingforward to engage a bonafide, resourceful, potential and experienced Contractor of goodfinancialcapacityforthejobsspecifiedinSpecialConditionsofContractinVolume-III.

- 1.1 One set of Tender document shall be issued to each Bidder. Bidders shall be required tosubmit the Tender duly signed and stamped in all pages of the document along with theiroffers.AllTendersshallbepreparedandsubmittedbytypingorprintingwithindelibleblackin k on white paper in consecutively numbered pages and in solid binding along with dulyfilled-in formats given in the Annexure. One additional booklet (Volume-IV) containing the billof quantities / price bid as issued to be submitted by the Bidder in two copies in the price bidpart.
- 1.2 Thetenderdocumentisnottransferable.TransferoftenderdocumentsissuedtooneBidderto another is not permissible. Similarly, transfer of Tender submitted by one Bidder to anotherparty is not permissible. The alteration of Tender once submitted shall not be entertainedexceptincaseofissueofAddenda/Corrigenda.
- 1.3 Tendershallbesubmittedunderacoveringletterindicatingclearlythesummaryoftenderchapte rswithannexure/schedulesofthecompleteTender.
- 1.4 Insertion, postscript, addition and alterations hall not be accepted unless confirmed by the Bidder 's signature.
- 1.5 Allthecopies of Tendershall be complete in all respects with all their attachments/enclosures.
- 1.6 The Bidder shall satisfy the Owner that the firm represented possesses the necessaryexperienceandthathehasathisdisposalsuitablemodernfacilitiesandspecializedem ployees to ensure that his work is of best quality and workmanship is according to thelatestproventechnologyandengineeringpractices.TheBiddershallsatisfytheOwnerthathe is financially in a position to fulfill Contractual obligations, offered to be undertaken byhim.
- 1.7 Bidder's complete offer (all the parts) shall be prepared and submitted in double sealedenvelope with Name of the work, NIT No. & date and Due date super scribed prominently ontheoutsideoftheenvelope:

The full name, postal address, telegraphic address and telex/ telephone/ fax/ E-mail addressoftheBiddershallbewrittenonthebottomleftcornerofthesealedenvelopes.

1.8 SCOPEOFWORKANDPARTICULARSTOBEFURNISHEDINTHETENDER:

- i) The work shall be carried out on item rate basis / job rate basis for which schedule of quantities/blankpriceschedulehavebeenissuedfordifferentitemsofworkasdefined in these opeof work, technical specification in Special Conditions of Contract.
- ii) The Tender not covering the total scope of work and services as detailed out in tenderdocumentsisliableforrejection.
- 1.8.1 The Bidder shall carefully check the enclosed Technical Specifications and shall satisfy himselfas to the suitability of the work as given in the Technical Specifications and shall take fullresponsibilityforthecompletionofworkasperdefinedscope.

1.9 PRICEQUOTATION:

- 1.9.1 TheBiddershallquotehispriceagainsteachitemofthescheduleasindicatedinScheduleofQuantit ies / Blank price schedule enclosed with technical specification, both in figures and inwordsclearly.
- 1.9.2 Rates shall be quoted both in figures & in words in clear legible letters. No overwriting isallowed. All scoring and cancellation should be countersigned by the Bidder. In case ofillegibility, the interpretation of Ownershall be final.
- 1.9.3 Bidder shall quote rates against the items in the schedule of items for the work / pricescheduleasfullydescribedandcontainedtherein.Nomodificationstotheworkcontentinth eitemswillbeallowed.
- 1.9.4 The offered unit rates shall remain **FIRM** for variation in completed value of the Contractincludingthecostofadditional/altered/newitemsofworktoanyextent.
- 1.9.5 Any request from the Bidder in respect of additions, alterations, modifications, correctionsetc.ofeithertermsandconditionsorratesofhisTenderafteropeningofTendersmayl eadtorejectionofhisTender.

1.10 RECEIPTOFTENDER:

Tendershallbereceived at the office of concerned Engineer-in-charge/Contract cellas peradvert isement. The Bidder has the option of sending the Tender by Registered Post or submitting the Tender in person, so as to reach the Engineer-in-charge/Contract cellas the case may be on or before the date and times et out for the same in the Invitation to Tender. Tender submitted by FAX/TELEX/TELEGRAM/E-mails hall not be accepted.

1.11 TENDEROPENING:

 $The {\sf T} ender will be open edinthemanner and at the time, date and places etfor opening of {\sf T} enders as described in the {\sf N} otice {\sf I} nviting {\sf T} ender/{\sf S} pecial {\sf C} on ditions of {\sf C} on tract.$

1.12 LANGUAGETOBEUSEDINFILLINGOFBIDDOCUMENTS:

The Tendershall besubmitted in English language only.

1.13 EARNESTMONEY:

BiddersshallsubmitEarnestMoneyofvalueasspecifiedinSpecialConditionsofContract/NIT and in the manner prescribed in clause-15 of Notice Inviting Tender. Earnest Money shallbereturnedtotheunsuccessfulBiddersattheexpiryofthevalidityperiodunlessotherwisee xtendedoronfinalizationoftheContract.EarnestMoneyofthesuccessfulBiddershallbereturne d after he furnishes the initial Security Deposit and Contract is signed. No interest shallbe paid on Earnest Money. E.M.D. shall not be accepted in any other form than as mentionedaboveandtheTendershallbesummarilyrejectedwithoutE.M.D.TheE.M.D.shallbe returned in form of A/c payee cheques / D.D.Bank charges shall be to the accounts ofContractorifD.D.isrequired.

1.13.1 ForfeitureofE.M.D.&rejectionofBid,if-

- a) TheTenderisrevokedduringitsvalidityperiod.
- b) The prices are increased unilaterally after the Tenderopening and during validity of offer.
- c) TheOwneracceptstheBidder'sbidproposalandtheBidderrefusetoenterintoContractafterthe Contractisawardedtohim.
- d) TheBidderfailstosubmitinitialSecurityDepositwithintheperiodspecifiedinSpecialConditi onsofContract.

1.14 NOCLAIMORCOMPENSATIONFORSUBMISSIONOFTENDER:

The Bidder whose Tender is not accepted shall not be entitled to claim any costs, charges and expenses incidental to or incurred by him through or in connection with his submission of Tender or its consideration on the Owner, even though Owner may modify / withdraw the Invitation to Tender or does not accept the Tender.

1.15 INCOMETAXPAN&SALESTAXCLEARANCECERTIFICATEANDP.F.CODE:

Bidder shall furnish the Income Tax PAN and valid Sales Tax clearance certificate issued by theconcernedauthority&P.F.CodewiththeTechnicalBidoftheTender.

1.16 NOTICEONBEHALFOFOWNER:

All notices of technical / commercial nature shall be issued by the Engineer-in-charge fromtimetotimeafterLOIisreleasedtillclosureofContract.

1.17 SITEINFORMATION&LOCALCONDITIONS:

1.17.1 Siteinformation

Informationregardingtheworksite, plantcapacities, location, approachtosite and metrological condition, work culture etc. as prevailing at the site can be obtained by the Bidders by site visit & interaction with Engineer-in-charge or others.

1.17.2 LocalConditions

It is suggested that the Bidder must visit the site and shalls at is fy and acquain thimself of the site condition and shall appraise himself of the procedure for engagement of labour and shall collect any other information which may be required before submitting the Tender.

1.17.3 Claims and objections due to ignorance of site conditions will not be considered aftersubmissionofTender.

The Bidder shall be deemed to have visited and carefully examined the site and surroundings, to have satisfied himself about the nature and details of all existing infrastructures a ndalsoas to the nature and conditions of the plant and equipment installed, means of transport

and communications, whether by land, water or air and astopossible interruptions the reto and in gress & exit from the site, to have made independent enquiries, examined and satisfied himself as to the sites for disposal of surplus materials and debris, the available accommo dation, and all other similar matters which may affect the work.

- i) TheBiddershallbedeemedtohaveacquaintedhimselfofGovernmenttaxes,laws,statut e,regulations,leviesandotherchargesrelatingtohisworkatsite.
- ii) Any neglect or omission or failure on the part of the Bidder in obtaining necessary andreliableinformationasstatedaboveoronanyothermatteraffectingtheBiddershall

 $not relieve him from any risks or liabilities or the entire responsibility for completion of the work in accordance with the {\sf Tender Documents}.$

1.18 OTHERCONDITIONS:

The Bidder is required to carefully examine the General Conditions of Contract, SpecialConditions of Contract, the Technical Specification, drawings and other details relating towork and given in the tender documents and fully acquaint himself as to all conditions andmatters which may in any way affect the work or the cost thereof. The Bidder shall be

deemedtohaveonhisownandindependentlyobtainedallinformationforthepurposeofprepari ngthe Tender and his Tender as accepted shall be deemed to have taken into account allcontingenciesasmayariseduetosuchinformationorlackofthesame.

- 1.18.1 TheBiddershallbedeemedtohaveexhaustivelyexaminedthetenderdocumentsincludingtheG $eneral Conditions of the Contract, {\tt Special Conditions of Contract, {\tt Technical Specifications to hav}$ eobtainedallinformationandclarificationsonallmatterswhatsoeverthatmightaffectthecarryi ngouttheworkandtohavesatisfiedhimselfastotheadequacyof his Tender. He is deemed to have known the scope. nature and magnitude of the work and the requirements of materials and labour involved etc. and as to all work he has to complete in accordance with the Contract whatever be the defects, omissions or errors that may befoundintheTenderDocuments.
- 1.18.2 In case of conflict between the conditions given in the Special Conditions of Contract /Technical Specification and the General Conditions of the Contract, the conditions given inthetechnicalspecificationshallprevailovertheGeneral&SpecialconditionsoftheContract.

1.19 SAFETYMEASURE:

The Contractor has to abide by the Owner's safety rules in vogue at the time of Tendering andenforcement of any additional rules from time to time during the Contract period and it's extensionifany.

1.20 STATUTORYPROVISION:

AllstatutoryprovisionslikeContractLabourActs,EmployeesProvidentFundActs,Paymentof Wage Act, Bonus Act, Minimum Wages Act, Workman Compensation Act, Sales Tax/IncomeTaxActsatthetimeofsubmissionofContractandanynewActsapplicabletosuchCont ract

 $/ Contract labour during the {\tt Contract period shall be liability of the {\tt Contract or}.}$

1.21 EXECUTIONOFCONTRACTS:

1.21.1 After LOI / Work Order is accepted by the Contractor, Contract will be executed by andbetweenOwnerandtheContractorwithin30daysasperprescribedproformaprovidedbyOP GC. The agreement shall be executed on non-judicial stamp paper of appropriate valuepurchasedintheStateofOdisha.

EndofSection-I

SECTION-II

2.0 DEFINITIONSANDINTERPRETATIONS

The following words and expressions (as hereinafter defined) shall have the meanings herebyassignedtothemexceptwherethecontextotherwiserequires.

- 2.1 "AcceptingAuthority"shallmeantheauthoritymentionedinSchedule'A'.
- 2.2 The 'Alteration / Variation of Order' means an order given in writing by the Engineer-in-chargetoeffectadditionstoordeletionsfromoralterationintheWorks.
- 2.3 'Approved' shall mean approved in writing including subsequent written confirmation of previous verbal approval and 'Approval' means approved in writing including as a foresaid.
- 2.4 'Bidder' means a person or group of persons or a company who offer rates under certainconditionswithanintentionofperformanceagainstanyinvitationtoTenderifacceptedb ythepersoninvitingTender.
- 2.5 The 'Completion Certificate' shall mean the certificate to be issued by the Engineer-in-chargecertifying that the work is completed in all respect commensurate to the provisions ofContract&tohissatisfaction.
- 2.6 'Constructionalplant'shallmeanallequipments,materials,appliancesorthingsofwhatsoever nature required for execution, completion or maintenance of the works (ashereinafter defined) but does not include materials or other things intended to form orformingpartofthepermanentwork.
- 2.7 The'Contract'shallmeanenforceableagreementbetweentheOwnerandtheContractorforexecuti onoftheworksincludingthereincollectivelyalldocumentssuchas:
 - i) GeneralConditionsofContract
 - ii) SpecialConditionsofContractincludingScopeofWork,PriceSchedule/BillofQuantities, TechnicalSpecification&ApprovedWorkSchedule.
 - iii) AgreedStatementofDeviation
 - iv) FieldQualityAssurancePlan
 - v) Drawingsifprovided
 - vi) LOI/WorkOrder
 - vii) AllrelevantcorrespondencehavingbearingonTenderbetweenBidder&Ownerbeforea cceptanceofTender.

All the above documents are complementary to each other.

2.8 The 'Contractor' shall mean the successful Bidder whose Tender has been accepted by OwnerandLOIacceptedbythesuccessfulBidderandincludeshis/their/itslegalrepresentative(s),successor(s)andpermittedassignee(s).

'Contractor' is a person/firm/company in relation to any establishment who undertakes toproduceagivenresultfortheestablishmentotherthanameresupplyofgoodsorarticlesofman ufacturertosuchestablishmentthroughContractlabourorwhosupplyContractlabourforanywo rkoftheestablishmentandincludesasubcontractororagentasthecasemaybe.

- 2.9 All functions pertaining to the operation of Contract means all acts, such as planning, scheduling, testing, measuring, certification of bill, closing of Contract etc., directing, issue of spares & consumables and controlling the activities of Contractornecessary for execution of the Contract and coordinating between the functioning agency & Owner or his functionary represent ative.
- 2.10 'Day'meansadayof24hoursfrommidnightirrespectiveofthenumberofhoursworkedinthatday .However,forthepurposeofworkinvolvingshiftworking"Day"meansadayof24hoursfrom6a. m.to6a.m.next.
- 2.11 'Drawings' shall include maps, plans and tracings or prints thereof with any modificationapproved inwriting by the Engineer-in-charge and such other drawings as may from time to time, befurnished or approved inwriting by the Engineer-in-charge.
- 2.12 The'Engineer-in-charge'or'Officer-In-charge'shallmeantheengineer/personasthecasemay be nominated by the Owner from time to time and shall include those who are expresslyauthorizedbytheOwnertoactforandonhisbehalfforallfunctionspertainingtooperati onoftheContract.
- 2.13 'Excepted Risks' are risks due to riots (otherwise than among Contractors employees) and civilcommotion (in so far as both these are uninsurable), war (whether declared or not), invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military orusurped power any acts of government, damage from aircraft, acts of god such as earthquake, lightening and unprecedented floods and other causes over which the Contractor hasnot control and accepted as such by the accepting authority or causes solely due to use oroccupationbytheOwnerofthepartofworksinrespectofwhichacertificateofcompletionhasb eenissued.
- 2.14 The 'Final Certificate' in relation to the work shall mean the certificate regarding thesatisfactorycomplianceofthevariousprovisionsoftheContracttobeissuedbytheOwneror his representative after the period of risk-liability is over. Risk liability period shall bespecifiedinSpecialConditionsofContract.
- 2.15 'Headings'inthisContractdocumentaregivensolelytofacilitatereferenceandarenotpartofthe Contractdocumentsandarenottobetakenintoaccountintheinterpretationoftheprovisionsoft heContract.
- 2.16 'Language for Drawings & Instruction': All the drawings, titles, notes, instructions, dimensionsetc.shallbeinEnglishlanguageonly.
- 2.17 'Letter of Intent (LOI)' shall mean an intimation by a letter to Bidder that their Tender hasbeen accepted in accordance with the provisions contained in the letter and hence to takepreparatory steps and compliance of formalities to commence the work from the date desiredbyOwner.
- 2.18 The 'Managing Director' shall mean the Managing Director of Odisha Power GenerationCorporationLtdorhissuccessorsinofficeasdesignatedbytheOwner.

- 2.19 'Market Rate' shall be the rate as decided by Engineer-in-charge on the basis of the cost ofmaterials and labour at the site where the work is to be executed, plus the percentagementioned in schedule-A to cover all overheads and profit (No percentage shall be added formaterialsissuedbytheOwner).
- 2.20 'MetricSystem':Alltechnicaldocumentsregardingthemeasurementofworksaregiveninthe metric system and all work under the Contract should be carried out according to themetric system only. All documents concerning the work shall also be maintained in the metricsystem.
- 2.21 'Noticeinwritingorwrittennotice'shallmeananoticeinwriting,typedorprintedmatterssent(un lessdeliveredpersonallyorotherwiseprovedtohavebeenreceived)byregisteredposttothelast knownprivateorbusinessaddressorregisteredofficeoftheaddresseeandshall be deemed to have been received in the ordinary course of post, it would have beendelivered.
- 2.22 The 'Owner' shall mean the Odisha Power Generation Corporation Limited (OPGCL), acompany incorporated under the Companies Act, 1956 having its registered office at 7th Floor, Module A, Fortune Towers, Chandrasekharpur, Bhubaneswar-751023 or any other places ifmodified subsequently and shall include its Managing Director or other AdministrativeOfficers authorised to deal with these presents and are concerned on his behalf arepostedinanyoftheofficesofOPGCLandshallalsoincludeOwner'ssuccessorsandassignees.
- 2.23 'PayingOfficer'shallmeanHeadoffinance/Manager(Finance).
- 2.24 The'PeriodofDefectLiability'inrelationtoaworkmeansthespecifiedperiodfromthedateof issue of completion certificate up to the date of issue of final certificate, which theContractorstandsresponsibleforrectifyingalldefectsthatmaydevelopintheworks.
- 2.25 'Plans' shall mean all maps, drawings, sketches and layout as incorporated in the Contractinor dert odefine broadly the scope and specifications of the work & works and all reproductions thereof.
- 2.26 'Schedule(s)' referred to in these conditions shall mean the relevant statement of detailsannexed to the tender papers issued by the Owner and the amendments thereto issued fromtimetotime.
- 2.27 'Singular & Plural': Unless otherwise stated specifically, the singular shall include the pluraland vice-versa wherever the context so requires. The 'Tender' shall mean the offer(s)submittedbytheBidder(s)&subsequentagreedconditions/clarificationsforacceptanc ebythe Owner. Words implying persons shall include relevant corporate companies or registeredassociations or body of individuals or firms of partnership, cooperative society as the casemaybe.
- 2.28 Site/Workplace'shallmeanthelandsandotherspacesabove&belowthegroundlevelonwhicht heworksaretobecarriedout,anyotherlandsorplacesprovidedbytheOwnerforthepurposeofth eContract.

- 2.29 'Specification' shall mean all directions, various technical details, standards, quality provisions and requirements attached to the Contract, which pertain to the method and manner of performing the work(s) to the quantities and qualities of the work(s) and the material stobe furn is hed under the Contract for the work(s) as may be amplified or modified by the Owner or the Engin eer-in-charged uring the performance of Contract inorder to meet the unforeseen conditions in the best interests of the work(s). It shall also include the latestedition including all addenda / corrigenda or relevant BIS Specifications and other relevant codes.
- 2.30 The'Sub-contractor'shallmeananypersonorfirmorcompany(otherthantheContractor)to whom whole or any part of the work has been entrusted by the Contractor, with the writtenconsent of the Owner or his representatives and the legal representatives, successors and permitted assignee of such person, firmorcompany.
- 2.31 'Temporary Works' shall mean all temporary works of every kind required for execution, completion or maintenance of the Contracted works.
- 2.32 The "Tender" shall mean the offer submitted by the Bidder and subsequent conditionsacceptedbytheOwner.
- 2.33 'Urgent Work' shall mean any urgent measures which in the opinion of Engineer-in-chargebecomenecessaryduringtheprogressoftheworktoobviateanyriskofaccid entorfailureordisruptionofgenerationwhichbecomenecessaryforsecurity.
- 2.34 'Value of Contract' shall mean the sum accepted or the sum calculated in accordance with theprices accepted in Tender and/or the Contract rates as payable to the Contractor for theentireexecutionandfullcompletionofthework.
 - The'Contractsum'shallmean:
 - a) Incase of lump sum Contracts, the sum for which the Tenderis accepted.
 - b) In case of percentage rate Contracts, the estimated value of the works as mentioned intheTenderadjustedbytheContractor'spercentage.
 - c) In case of item rate Contract, the value of works arrived at after multiplication of thequantities shown in the schedule of quantities by the item rates quoted by the Bidder forthevariousitems.
- 2.35 'Week' means a period of seven consecutive days without regard to the number of hoursworkedinanydayinthatweek.
- 2.36 'Workingday'meansanyday,whichisnotdeclaredtobeholidayorrestdaybytheOwner.
- 2.37 The'Works'shallmeanandincludeallworkstobeexecutedinaccordancewiththeContractor part thereof as the case may be and shall include all extras, additions, altered or substitutedworksasrequiredforthepurposeoftheContractorasmayberequiredtobeexecuted bytheOwner/Engineer-in-chargeatanagreedpriceifnotavailableinscope.

2.38 NATUREOFCONTRACT: The Contractmaybefor-

- a) Construction/Fabrication/Erectionofplant&equipment.
- b) Civilconstruction.
- c) Operation(anysystem).

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- d) Maintenance (Civil/Electrical/Mechanical/Miscellaneous works, such as upkeepment ofplant,Plantationetc.)
- e) Composite/Turnkeypackage.

2.39 EarnestMoney:

The Bidderis required to submit 'Earnest Money' with Bids as guarantee (Bidguarantee) to a bide by the terms & conditions of Tenderdo cument and comply with the work if offered.

2.40 ScheduleofRate:

Scheduleof Rates means the latest rate published by Works Department/P.H. Department. / Irrigation Department., Govt. of Odishaas the case may be.

2.41 ScheduleofQuantities:

Schedule of Quantities is details of item wise quantity issued by the Owner in the Price Bidandtherate&amountofferedbytheBidderthereinanditssubsequentagreementbybothpar ties.Thisisapplicableforconstruction&civilmaintenancejobonly.

2.42 PriceSchedule:

Price schedule is a document in which description of operation / maintenance, probablefrequencyduringastipulatedperiodandblankunitrateareprovidedbytheOwner.Bidd ershall fill up the blanks and submit it as Price Bid, which is subsequently agreed by both thepartiesdirectlyorafternegotiation.

- 2.43 "SiteIn-charge" is a nemployee of Contractor who is categorically authorized to manage the site for rday-to-day activities on his behalf.
- 2.44 "Labour" means workers employed by a Contractor directly or indirectly through a sub-contractor or by an agent to do any skilled, semi-skilled, unskilled, manual, technical or clericalworkrelatingtothesubjectofContractforhireorreward.
- 2.45 "Minimumwage" meanswages as defined under the Minimum Wages Act-1948 and a mended fr om time to time.
- 2.46 Disputeregardinginterpretationanddefinition: Incaseofanydisputeregardinginterpretationanddefinition,thedecisionofOPGCshallbefinal.

EndofSection-II

SECTION-III

3.0 GENERALINFORMATIONTOBIDDER(S):

3.1 ISSUEOFTENDERPAPER:

Owners hall is sue one set of price dtender documents which consists of:

- i) InstructionstoBidderincludingNIT&Proformaofletterofundertaking
- ii) GeneralConditionsofContract
- iii) SpecialConditionsofContractincludingTechnicalSpecificationandScopeofWor k
- iv) BlankPriceBid/BillofQuantities
- v) Drawings
- 3.2 The Technical Bids shall be opened as per the stipulation in NIT. Information provided anddocuments submitted by the Bidders in Techno-commercial bid shall be processed, examined, verified and evaluated for ascertaining the suitability of Bidders to qualify for opening of Pricebid. The price bids shall be opened with prior intimation to all technically qualified

Biddersonlyandinpresence of the mortheir authorized representatives. Only proprietor, partne r, director or permanent employee with necessary power of attorney shall be accepted as authorized representative.

3.3 WITNESS:

Witness and sureties should normally be persons of status and property. Their names, occupation and address shall be stated below their signature.

3.4 VALIDITY:

Offers submitted by Bidders shall remain valid for a period of 180 days from the scheduleddateofopeningoftheTender.IncaseofBidderrevokingorcancelinghisTenderorvaryi ngany term(s) in regards thereof the Earnest Money paid by him shall be forfeited and bidcancelled.

3.5 ADDENDA/CORRIGENDA:

- 3.5.1 Addenda / Corrigenda to the tender document may be issued reasonably prior to the date of submission of the Tenders to clarify documents or to reflect modification in the design or Contract terms. If such issues made, subsequent to sale of Tender paper, time extension shallbegivenandsubmissionofBidshallbedealtwithinaccordancewithClause 1.3ofInstructionstoBidder(s).
- 3.5.2 Theaddenda/corrigendawillbeissued/mailedtoeachpersonororganizationtowhichaset of tender documents has been issued. Each recipient shall acknowledge the receipt of thesame and attach one copy of the addenda/corrigenda issued, which shall form part of TenderDocuments.Incaseofpaperpublicationofsuchaddenda/corrigenda,copyofthesamema ybetreatedaspartoforiginaltenderdocuments.

3.5.3 REVISEDPRICEBID:

In case of any deviation proposed by any of the Bidders and accepted by the Owner duringevaluation of Technical Bid, the same shall be intimated to all technically qualified Bidderswith provision of submission of fresh Price Bid taking into consideration the accepteddeviation.

3.6 RIGHTOFOWNERTOACCEPTORREJECTTENDER:

- 3.6.1 The right to accept the Tender rests with the Owner. The Owner further does not bind himselfto accept the lowest Tender and reserves the authority to reject any or all the Tendersreceived without assigning any reason whatsoever. The whole work may be split up betweentwo or more Contractors or accepted in part (not entirely) if considered expedient. The ratesshall be the lowest/negotiated for such eventualities. Tenders in which any of the particularsand prescribed information is missing or incomplete in any respect and/or the prescribedconditionsarenotfulfilledareliabletoberejected.ThedecisionoftheOwnerinrespec toftheaboveshallbefinalandbindingontheBidders.
- 3.6.2 Canvassing in connection with Tenders is strictly prohibited. The submitted Tenders of theBidders who resort to canvassing are liable for rejection. Tenders containing uncalled remarksoranyadditionalconditionsareliabletoberejected.

3.7 BIDDER'SRESPONSIBILITY:

The intending Bidders shall be deemed to have visited the site and familiarized themselvesthoroughly with the site conditions before submitting the Tender. Non-familiarity with thesiteconditions will not be considered areas one itherfore xtraclaims or fornot carrying out the works in strict conformity with the drawings and specifications. The correctness of the details given in the Tender Documents as guideline information to help the bidder but to make up the Tenderis not guaranteed.

3.8 NOTETOPRICESCHEDULE/SCHEDULEOFQUANTITY:

- 3.8.1 The Bidder shall be deemed to have studied the specifications and details of work to be donewithintimescheduleandtobeacquaintedhimselfoftheconditionsprevailingatsite.
- 3.8.2 RatesmustbefilledintheoriginalTenderdocument.AnyexceptionstakenbytheBiddertothesch eduleofquantity/pricescheduleshallbebroughtoutinthetermsandconditionsofoffer.
- 3.8.3 The schedule of quantity / price schedule should be read in conjunction with all the othersectionsanddocumentsoftheTender.
- **3.9** EQUIPMENTSTOTHECONTRACTORONCHARGEABLEBASIS: OwnershallnotprovideanyequipmenttotheContractoronchargeablebasisorotherwise.

3.10 ISSUEOFPRIMEMATERIALS:

- 3.10.1 Rateshallbeofferedincludingthecostoflabour&primematerialslikesteel,cementetc.incaseofc onstructionandcivilrepairmaintenancework.
- 3.10.2 In case of mechanical & electrical maintenance, Owner shall provide steel materials otherthan reinforcement steel. Spares, lubricants, special consumables forming part of the job,fasteners,packingincludingmillinternalsetc.shallbeprovidedbytheOwnerandshallnotbei ncludedinpriceofBidder.OtherconsumableshallbeprovidedbyContractor.

TheContractorshallarrangeandstockinfullorinpartofprimematerialsasperdirectionofEngine er-in-charge within 7 days of commencement of work and obtain a certificate fromEngineer-in-charge to this effect. The payment against the prime materials shall be madeprogressivelyoncertificationofutilizationfromEngineer-in-charge.

3.11 ARRANGEMENTBEYONDCONTRACT:

 $\label{eq:lim} It may be some times sore quired to provide materials \& services by the Contractor beyond the Sco$

peof Contract. In such situation, the price must be finalized before actual event.

3.12 FOREIGNEXCHANGEVARIATION:

IncaseimporteditemsareinvolvedintheContract,thepricefluctuationcorrespondstothefluctu ation in the price of foreign exchange. Hence, amount of foreign exchange involved, theexchange rate for the currency on the date of offer and rate of duty should be specificallymentionedbytheContractor.

3.13 PRICEESCALATION:

In case of price escalation provision, base date, indices on the base date and documents /publications shall be referred on the due date and actual date of completion of work withoutanyambiguity.

3.14 PURCHASESFROMSUBCONTRACTOR/SUBVENDOR:

The Owner shall not directly or otherwise be involved with any subcontractor or sub-vendor.Nosalestaxform'C'/formIVorRoadPermittoanyoftheContractor/subcontractor/s ub-vendorshallbeissuedunderanycircumstances.

3.15 INCOMETAX/WORKSCONTRACTTAX/SALESTAX/GST/ANYOTHERTAX&DUTIES:

Income Tax / Works Contract Tax / Sales Tax / Service Tax / any other taxes & duties ifapplicableattheprevailingrateshallbepaidbyContractorandshallbedeductedfromtheirRunn ingbillsifapplicable.

3.16 EXCISE:

Certain items of work such as manufacturing of steel vessels and pipes etc attract excise duty. The Contractor shall register himself with excise department shall deal with directly and Ownershall takenoliability on account of excised uty to be paid by the Contractor.

- 3.17 The price to be quoted by the Bidders shall be kept firm up to completion of work. Noescalationshallbeallowed.
- 3.18 The person signing the Tender should have requisite authorization of the firm submitting theTender. This is applicable only to the Joint Stock Company & the authorized person shall be adirector / partner / regular employee of the said firm. In case of unregistered firm, the Owner,Managingpartners,orauthorizedpartnertothiseffectshallsigntheTender.

3.19 OVERRUNCHARGES:

Delayincompletion of work beyond the control of the Contractor such as non-availability of front, drawings, specifications, materials or force majeure etc, Contractor has to increase the additional facility to complete the work in time. No overrunch arges hall be considered. But, ho wever the Engineer-in-charge shall examine the period of delay and possibility of a dherence to scheme the standard stedulebyprovidingreasonableadditionalmanpower/facilityandifsatisfiedthat completion of work shall not be possible by providing reasonable additional manpower, time extension shall be allowed to the Contractor no penalty shall levied on this & be account.Nooverrunchargeshallbepaid.

3.20 FACILITIESTOCONTRACTOR(S):

3.20.1 Water Supply: (a) Water for drinking and sanitation purpose shall be provided to theContractor for the site work, free of cost. (b) Unfiltered water for construction / maintenanceworks shall be supplied from the nearest source free of cost. But the Contractor shall arrangetotransportwaterfromthenearestsourceallowedtohimforallpurpose.

3.20.2 **PowerSupply**:PowersupplywillbeprovidedtotheContractorforthesiteworkandofficeatacosttobe decidedbytheOwner.ThepowerwillbesuppliedfromthenearestpointtothesiteandContractor shallarrangetotapthepowertohissiteathisowncost.

3.20.3 LandforContractor'sFieldOffice,Godown&Workshop

- a) The Owner at his discretion and convenience may provide the land for construction ofContractor's temporary field office, godowns and site store required for the executionoftheContractneartothesitebutoutofplantgatefreeofcost.TheContractorsh allat his cost construct all these temporary building structures and provide water supply,sanitary & power supply arrangement as approved by the Engineer-in-charge, withdueregardtoOwner'sSafetyRule.
- b) On completion of the work undertaken by the Contractor, they shall remove alltemporaryworkserectedbythemandhavethesiteclearedasdirectedbyEngineer-in-c harge.IftheContractorfailstocomplywiththeserequirements,theEngineer-in-charge has the right to remove any structure, such surplus, rubbish materials anddisposeoffthesameasdeemedfitandgetthesiteclearedandtheContractorshallfort hwith pay the amount of all expenses so incurred and shall have no claim in respectofanysuchsurplusmaterialsdisposedasaforesaid.Thelandprovidedshallbesole lyon temporary basis, which is terminable at any time without notice or withoutassigninganyreasons.Intheeventofanysuchterminationortheterminationoft heContract / completion thereof, the Contractor shall forthwith vacate the premises. TheOwnerreservestherighttoasktheContractorfordemolitionatanytimeduringthecur rencyoftheContracttovacatethelandbygivingsevendaysnoticeonsecurity/safetyreas onsorOwner'sinterest.

c) Medicalfacility:

Owner shall extend free medical consultancy / services as available at ITPS hospital totheContractorpersonnelduringtheirassignmentbutnomedicineshallbeprovided.

d) Accommodation:

Owner may provide accommodation subject to availability to the company executivesonchargeablebasis, which has to be determined by the Owner from time to time. In such an event, rent for 6 months shall be retained from 1st Running bill of the Contractor as security & rent from second month shall be recovered from subsequentrunning bills. The amount hold as security shall be returned to the Contractor

on handing over the vacate possession of accommodation with security amount.

3.21 LIABILITYOFCONTRACTORINCASEOFSTRIKEOFTHEIRLABOURS:

3.21.1 IncaseContractor'slabourgoonstrikewithadvancenoticeasperrule,itisresponsibilityoftheCon tractortomobilizesuchmanpowerfromtheirothersitesorotherwiseandcontinuethe work so that execution of Contract is not affected.In such an event, the failure to performshallleadtheOwnertogettheworkdonebyanyotheragency,butatthecost&riskoftheC ontractor. Further, the Contract shall be terminated with seven (7) days notice in O&MContract and the Contractor may be debarred from participating in any future Bid in OPGCLtd. In case of construction work, non-adherence to schedule shall lead to cancellation ofContract or imposition of penalty at the discretion of the Engineer-in-charge. If the labours goon strike without prior notice, the situation shall be treated as force majeure providednonperformance is for a reasonable period only. If the situation is beyond reasonable controlof the Contractor but has taken appropriate steps as a man of common prudence would havetaken in his own case, Owner may consider in case to case basis to either terminate theContract or otherwise get the work done by other means but at the cost &

 $risk \\ the Contractor. Only events of such illegals trike, which make the performance impossible at the$

of

time of occurrence and for a considerable time period for mobilization, shall be considered asforcemajeure.

- 3.21.2 TheoperationshallcontinueroundtheclockfortheentireContractperiodwithoutinterruption unless otherwise notified by Engineer-in-charge. Hence, staff for attendingmaintenancejobshallbekeptreadybytheContractoronallSundaysandotherNational &festivalholidaysattheirowncost.Incaseofconstructionwork,theworkshallbeexecutedasper thedirectionofEngineer-in-charge.
- 3.21.3 For satisfactory performance of Contract & to meet the odd hour work and emergencyrequirement etc and to meet the schedule of construction work, the requisite number of manpowerhastobearranged by the Contractor at the irown cost.

3.22 SPARES&CONSUMABLES:

The items of materials, spares, consumables, tools & plants to be provided by Owner if any either on cost or free of charges shall be specified in Special Conditions Contracts.

3.23 OTHERCONDITIONS:

- 3.23.1 Special Conditions of Contract shall be read in conjunction with the General Conditions of Contract, technical specifications, schedule, and drawings and any other documents formingpartofthisContractdocuments.
- 3.23.2 Where any clause of the Special Conditions of Contract contradicts with any provisions of theGeneral Conditions of Contract, the provisions of Special Conditions of Contract shall bedeemedtooverridetheprovisionsofGeneralConditionsofContract.
- 3.23.3 Incase of contradiction among Bureau of Indian Standard Specifications, General Conditions of Contract, Special Conditions of Contract, Notice Inviting Tender, Technical Specifications, Drawings, Schedule of quantity & time, the following shall prevail in order of preference.
 - i) DetailedworkorderformingpartofContract
 - ii) ScheduleofQuantities
 - iii) TechnicalSpecifications.
 - iv) NoticeInvitingTender
 - v) SpecialConditionsofContract
 - vi) Drawings
 - vii) GeneralConditionsofContract
 - viii) BureauofIndianStandard
- 3.24 Whereveritismentioned in the specification that the Contractor shall perform certain work or provide certain facilities, it is understood that the Contractor shall do so at his cost.

3.25 DURATIONOFCONTRACT:

TheperiodofContractshallbespecifiedintheSpecialConditionsofContract.TheContractperiod shallreckonfromthedateofissueofLOI.OPGCLreservestherighttowithdrawanyitem(s)ofwork sfromthescopebyservinga7daysnoticetotheContractorwithoutgivinganyreasonforthesame andtakeupthejobdepartmentallyorotherwiseifperformanceofContractor is found to be unsatisfactory. Value for the items of work thus withdrawn shall notbepayablebytheOwner.TheContractorshallnotclaimanycompensationonthisaccount.

- 3.25.1 The period of Contract may be extended with mutual consent if the delay is beyond thecontrolofContractoratthediscretionoftheEngineer-in-charge.
- 3.25.2 IncaseOwnerdesirestoextendtheperiodofanyOperation/MaintenanceContractbyanadditio nal duration of 2/3 months, the Contractor has to accept the proposal of Owner atoriginalrateandterms&conditions.

3.26 MATERIALSHANDLING:

ContractorshalldrawallthematerialsfromWarehousebeingdulyauthorizedbyEngineer-in-cha rge. Requisite loading, transportation & unloading of all such materials shall be theresponsibility of Contractor. Only in case of heavy materials, Owner shall provide means ofloading/unloadingatthecosttobespecifiedintheSpecialConditionsofContract.

EndofSection-III

SECTION-IV

4.0 GENERALOBLIGATIONS/GENERALCONDITIONS:

4.1 INTERPRETATIONOFCONTRACTDOCUMENTS:

- 4.1.1 CompletedocumentsformingtheContractaretobetakenasmutuallyexplanatory.Shouldthere be any discrepancy, inconsistency, error or omission in the Contract or any of them, thematter may be referred to the Engineer-in-charge who shall give his decisions and issueinstructions to the Contractor directing in what manner the work is to be carried out. Thedecision of the Engineer-in-charge shall be final and conclusive and the Contractor shall carryoutworkinaccordancewiththisdecision.
- 4.1.2 Bothdetailsofdrawings&specificationsconstituteintegralpartofthescopeofwork.
- 4.1.3 Notwithstanding any of the items of works mentioned in Technical Specification / Scope ofwork,theContractorhastodoallsuchworksnecessaryforcompletionoftheworktomeetthee ndobjectivewithdueregardtosoundengineeringpracticeasdirectedbyEngineer-in-charge.

4.2 SPECIALCONDITIONSOFCONTRACT:

- 4.2.1 Special conditions of Contract shall be read in conjunction with the General Conditions of Contract, Specifications of work, drawing and other documents forming part of this Contract where verthe contexts or equires.
- 4.2.2 Notwithstandingthesub-divisionsofthedocumentsintotheseparatesectionsandvolumeseach part shall be deemed to be supplementary & complementary to every other part andshallbereadwiththeContractAgreementsofarasitmaybepracticable.AlldocumentsofCont ract&Tenderhavenexuswitheachother.
- 4.3 If there are conflicting provisions made in any one of the documents forming part of theContract, the Owner shall be the deciding authority with regard to the correctness of thedocument.
- 4.4 Any error or omission in any part of Contract documents shall not vitiate the Contract orrelease the Contractor from execution of the whole or any part of the works comprised therein according to drawings & specification or from any of his obligations under the Contract.
- 4.5 Thematerials, design and work manships halls at is fy the relevant Bureau of Indian Standard, the jo bspecifications contained herein and codes referred to. Where the jobs pecifications stipulate th erequirement in addition to those contained in the standard codes and specification, these additi on alrequirements shall also be satisfied.

4.6 BIDDERTOOBTAINHISOWN INFORMATIONONSITECONDITION&CONDITIONOFWORK:

4.6.1 TheBiddershallbedeemedtohaveexaminedthetenderdocuments,tohaveobtainedhisown information in all matters, whatsoever that might influence carrying out the works at thescheduledratesandsatisfiedhimselftothesufficiencyofhisTender.Heisdeemedtoknowthe scope, nature as to what works he has to complete in accordance with the Contractdocument whatever be the defect, omission or errors that may be found in the ContractDocument. The Contractor shall be deemed to have visited site and surrounding areas, tohave satisfied himself to the nature of all existing structures, and also as to the nature andthe conditions of available facilities like railways, roadways, bridges, culverts, means oftransportandcommunicationsbyland, waterorair

and possible interruptions there to the

accesstoandfromsiteandtohavemadeenquiries, examined&satisfiedhimselfofthesitefor obtaining sand, stones, bricks and other materials, the sites for disposal of surplus, materials, the available accommodation like depots, buildings as may be necessary forexecuting and completing the work to have made local, independent enquiries as to the sub-soil, water, landvariations thereof, storms, prevailing winds and climatic conditions and allot hersimilar matters affecting the works. Heisdeemed to have acquainted himself with his liability for payment of Government taxes, custom duties and other charges. He is deemed to have acquainted himself with the local labour attitude, work culture, customs & systems etc.

- 4.6.2 Any neglect or failure on the part of the Bidder in obtaining necessary and reliable informationor issues stated at 4.6.1 or any other matters affecting the Contract shall not relieve him fromany risks or liabilities or the entire responsibility for completion of the works at the scheduledrates and time instrict accordance with the Contract documents.
- 4.6.3 Any change in technological requirement shall be binding on the Contractor and no extraclaimonthisaccountshallbeentertained.
- 4.6.4 No verbal agreement or inference from conversation with any officer or employee of theOwner either before, during or after execution of the Contract agreement shall in any wayaffectormodifythetermsorobligationshereincontained.

4.7 MUTUALLIABILITIESAMONGCONTRACTS:

The Contractor who are executing more than one Contract under OPGC, any penalty orrecoveriesofoneContractshallbemadefromotherContract&viceversa.

4.8 CONTRACTREVIEWMEETING:

Engineer-in-charge shall arrange Contract Review Meeting in regular intervals in case theperformance subject to any difficulty and take decision in connexion with amendment oftime, quantity, priceetc.

4.9 SECURITYDEPOSIT:

- 4.9.1 Asumof10%oftheacceptedvalueoftheTenderoractualvalueoftheworktobeexecutedwhichev er is higher for Contracts not exceeding Rs.1 crore, 7.5% for the value of Contractsabove Rs.1 crore up to Rs.5 crore and 5% for the value of Contracts over Rs.5 crore shall haveto be deposited by the Contractor as security deposit with the Owner & retained by the Owneruntiltheexpiryofdefectliabilityperiod.
- 4.9.2 This may be deposited initially at 2.0% of the value of the Contract (referred as initial securitydeposit) within 10 days of receipt by him of LOI and the balance will be recovered ininstallmentsthroughthededuction@10%ofthegrossvalueoftheeachrunningbillfortheContr act up to Rs.1 crore, 7.5% for Contract between Rs.1 crore to Rs.5 crore and 5% forContract over Rs.5 crore, till total security deposit is collected. No further deduction from thebillswillbemadeonthisaccountsubjecttoclause.4.9.7hereafter.
- 4.9.3 AlternativelytheContractormayathisoptionhavetodepositthefullamountasmentionedin clause 4.9.2 above towards security within 10 days of issue of LOI. This amount will have tobesuitablyenhancedtothetuneofcorrespondingpercentageoftheexecutedvalueifany.
- 4.9.4 ContractorshallfurnishtheinitialortotalsecurityamountbyDemandDraftinthemannerspecifie din**Clause-1.13**uptoContractvalueofRs.25.00laconly.BeyondContractvalueofRs.25.00lacthe initialortotalsecuritydepositshallbeacceptedinformofBankGuaranteein the prescribed format from any nationalized or scheduled bank. InallthecasesiftotalsecurityisnotdepositedeitherinformofDemandDraftorBank

Guaranteethesecurityasmentioned in Clause 4.9.2 shall be recovered from the running bill of the Contractor. The

BankGuaranteefacilityshallbeextendedtoonlycompaniesofreputeatthediscretionofOPGC.Th e earnest money deposited with the Tender shall be adjusted towards initial securitydepositattheoptionoftheBidder.

- 4.9.5 If the Contractor/subcontractor or their employees damage, break, deface or destroy theproperty belonging to the Owner or others during the execution of the Contract, the sameshall be made good by the Contractor at his own expense and in default thereof the Engineer-in-charge may cause the same to be made good by other agencies and recover expenses fromtheContractorforwhichthecertificateoftheEngineer-in-chargeshallbefinal.
- 4.9.6 All compensation or other sums of money payable by the Contractor to the Owner orrecoveries to be made under terms of this Contract may be deducted from their securitydeposit or from any sums which may be due or may become due to the Contractor by

theOwneronanyaccountwhatsoever.Intheeventofhissecuritybeingreducedbyreasonsofany such deduction or sale, the Contractor shall within ten days thereafter make good by bankdrafts,anysumorsumswhichmayhavefallenshortofSecuritydepositamountoranypartth ereof. No interest shall be payable by the Owner for sum deposited/retained as securitydeposit.

4.9.7 The security deposit will be refunded after the expiry of the period of defect liability asstipulated in the Contract and on submission of final certificate.

4.9.8 Thevariationinsecuritydeposit:

Any agency stands L1 in any Bid while they are executing any other Contract with Owner, thesecuritydepositofsuchL1Contractshallbeenhancedto20%.Aftersuccessfulcompletionof 1st mile stone / initial three months as the case may be, 10% of the security may berefundedtotheContractor.

4.10 FORFEITUREOFSECURITYDEPOSIT:

WheneveranyclaimagainsttheContractorforthepaymentofasumofmoneyarisesoutofor under the Contract, the Owner shall be entitled to recover such sum by appropriating inpart or whole the security deposit of the Contractor and to sell any Government securitydepositoftheContractorformingwholeorpartofsuchsecuritydeposit.Intheeventofth esecurity being insufficient or if no security has been taken from the Contractor, then thebalance or the total sum recoverable as the case may be, shall be deducted from any sumthen due or which at any time thereafter may become due to the Contractor under particularContract or any other contract with Owner. The Contractor shall pay to the Owner on demandany balance remaining due. In case any dues can not be recovered out of Contract(s), theamountmayberecoveredasdebtliability.

In the event of any breach by the Contractor or any loss or damage caused to the OwnerwhichintheopinionoftheOwnerhasarisen,thedecisionoftheEngineer-in-chargeshallbe finalandbindingontheContractororintheeventoftheterminationoftheContractforanysuch breach, the security deposit is liable to be forfeited. The decision of forfeiture by theOwnershallbefinalandbindingontheContractor.

4.11 AMENDMENTOFQUANTITY, VALUE&PERIODOFCOMPLETION:

In case of lump sum Contract, no deviation shall be allowed. But in case of lump sum ContractbasedonBillofQuantitiesanditemrateContractifanydeviationinquantityoromissiono fitems are discovered in course of performance of Contract, the cumulative effect of

whichvaries the Contract sum up to 5%, the error shall be rectified/amended and the value sovarying shall be added with or deducted from the Contract sum @ original contract cost as the case may be. Deviation shall be allowed subject to recommendation of Technical

Servicesdepartment, if the varying values hall exceed 5% of Contract value only. Incase of annual maintenance Contract in respect of mechanical maintenance, electrical maintenance, plant clea ningorany other operational activities time extension for completion of any item does not arise. But the period of service may be extended beyond Contract period at the discretion of management if situations odem ands. In addition to this, the Engineer-in-chargerese rves the power-

- a) to make alteration in, omission from, additions to or substitutions for the originalspecifications, drawings, designs and instructions that may appear to him to benecessaryoradvisableduringtheprogressofthework;
- b) to omit a part of the works in case of non-availability of a portion of the site or for anyother reasons. The Contractor shall be bound to carry out the work in accordance with any instructions given by the Engineer-in-charge to the extent the omission

doesnotchangethevalueofContractbymorethan10%.Consequentalterations,omissio ns, addition or substitution shall form part of the Contract as if originallyprovided therein and the Contractor may be directed to do in the manner abovespecified as part of the works. The Contractor shall carry out the work on the sameconditions in all respect including rate on which he agreed to do the main work. But ifsuch alteration, omission, addition or substitution radically change the original natureof the Contract shall be ordered by the Engineer-in-charge as a deviation and in theevent of deviation being ordered which in the opinion of Contractor changes theoriginalnatureoftheContract,freshrateshallbeworkedoutbyEngineer-in-chargewi thmutualconsent.

Rateforsuchadditional, alteredorsubstitutedworkshallbedeterminedby the Engineer-in -charge as follows:-

i) If the rate for additional, altered or substituted items of work is specified in theschedule of quantities / price schedule, the Contractor shall carry out theadditional, altered or substituted items at the same rate. In case of compositeTenders where two or more schedules of quantities may form part of theContract, the applicable rate shall be taken from the schedule of quantity ofthat particular part in which the deviation is involved, failing that at the

lowest applicable rate for the same item of work in the other schedules of quantities.

ii) If the rate for altered, additional or substituted item of work is not specified inthe schedule of quantities / price schedule, the rate for that item shall bederivedfromtherateforthenearestsimilaritemspecifiedtherein.Incaseofco mposite Tenders where two or more schedules of quantities form part ofthe Contract, the rate shall be derived from the nearest similar item in thescheduleofquantitiesoftheparticularpartofworksinwhichthedeviationisin volved failing that from the lowest of the nearest similar item in otherscheduleofquantities.

- iii) If the rate of any additional, altered or substituted item of work cannot bedetermined in the manner specified in sub-para (i) & (ii) above, then such itemof work shall be carried out at the rate entered in the Schedule of Ratesmentioned in schedule A plus/minus the percentage by which the tenderedamountoftheworksactuallyawardedishigherorlowerthantheestima tedamountofworksactuallyawarded.
- iv) If the rate for any altered, additional or substituted item of work cannot bedeterminedinthemannerspecifiedinsubparas(i)to(iii)ofClause4.11,dueto non-availability of rate in Schedule A, then the rate for such item of workshall be determined by the Engineer-in-charge on the basis of the purchasepriceassupportedbythevouchersplusmutuallyagreedlabourrate.Inc asetheEngineer-in-chargeconsidersthepurchasepriceunreasonable,theprice shall be determined on the basis of market rate(s) prevailing during thefortnightfollowingthedateoforder.

4.12 SUSPENSIONOFWORKS:

The Contractor shall, on receipt of the order in writing of the Engineer-in-charge, suspend theprogressoftheworksoranypartthereofforsuchtimeandinsuchmanner, as the Engineer-in-chargemay considernecessary for any of the following reasons:

- i) OnaccountofanydefaultonpartoftheContractor;or
- ii) ForproperexecutionoftheworksorpartthereofforreasonsotherthanthedefaultoftheC ontractor;

InanyoftheabovecasestheContractorshallproperlyprotectandsecuretheworksto the extent necessary and carry out the instructions given on that behalf by theEngineer-in-chargeduringsuchsuspensionperiod.

4.12.1 compensation:

Compensationforsuspensionofworkunder(ii)ofClause4.12shallbedealtwithonrequestof Contractor by the Contract Review Meeting depending on the period of suspension &conditionofsuspensionetc.

4.12.2 Timeextensionforsuspensionofwork:

Time extension for suspension of work under Clause 4.12 (ii) shall be dealt in accordance with Clause No.4.13 $\,$

4.13 TIMEEXTENSIONFORDELAYINCOMPLETIONOFWORK:

The time allowed for execution of total works as specified in the Schedule-"A" with due regardof achieving the corresponding milestone mutually agreed upon or the extended time

inaccordancewiththeseconditionsshallbetheessenceoftheContract.Theexecutionofthewor ks shall commence from the 15th day after the date on which the Owner issues writtenorderstocommencethework.

AssoonaspossibleaftertheContractisfinalizedtheEngineer-in-chargeandtheContractorshall agree upon a Time and Progress Chart/PERT chart / L₂ network before agreement issigned. The chart shall be prepared in direct relation to the time stated in the Contractdocuments for completion of items of the works. It shall indicate & forecast the dates

of commencement and completion of various sections of the work corresponding to various milestones.

The target date of achieving various milestones and activities between two consecutivemilestonesshallbeagreeduponmutuallyandreviewedinregularintervalsbyEngine er-in-charge. During review, the date of achievement of milestone may be adjusted if required butnot the date of completion of work as per schedule. However, no time extension shall bepermittedbeyondthetimeofcompletionasperContract.

4.13.1Timeextensiononaccountofquantityamendment/deviation:

If the work is delayed due to increase in scope / quantity the time for completion of mile stoneof the total works shall, in the event of any deviation/amendment resulting in additionalquantityovertheContractquantitybeingordered,beextendedasunder.

- a) intheproportionwhichtheadditionalcostofthealtered,additional,substitutedworksbe arstotheoriginalContractsum,plus
- b) 25%ofthetimecalculatedin(a)aboveorsuchfurtheradditionaltimeasmaybeconsidere dreasonablebytheEngineer-in-charge.

 $\label{eq:linear} Alternatively, variation in completion time of milestone may be worked out mutually in Contract Review Meeting depending on the prevailing conditions and need of the hour.$

4.13.2 Time extension for suspension of work without fault of Contractor:

 $\label{eq:linear} In case of suspension of work for no fault of Contractor time extensions hall be allowed to the Contractor as deemed proper by Contract Review Meeting on request of the Contractor.$

4.13.3TimeExtensionfordelayonaccountof:-

- a) forcemajeure;
- b) abnormallybadweather,or
- c) delayon the part of other Contractors engaged by Owner in executing work not forming part of this Contract but having bearing on this Contract;
- d) non-availability of stores to be provided by the Owner under the Contract;
- e) anyotherrelatedcausebeyondthecontrolofContractor-

-provided the Contractor shall immediately given otice thereof inwriting to the Engineer-in-charg e but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-cha rge to proceed with the works. The case may be examined in the Contract Review Meeting and decision the reon shall be final.

- 4.13.4 RequestforextensionoftimeshallbemadebytheContractorinwritingwithin24hoursofthe happening of the event causing delay for consideration of Owner. The Contractor mayalsoindicatetheperiodofextensiondesiredwithsupportingreasons.
- 4.13.5 In any such case the authority mentioned in Schedule-A may give a fair and reasonableextension of time for completion of the work on the recommendation of Contract

Review Meeting. Such extension shall be communicated to the Contractor by the Engineer-in-charge inwriting, within 15 days of the date of receipt of such request by the Engineer-in-charge.

4.14 MATERIALS:

- a) The Contractor shall at his own expenses provide all materials required for the works otherthanthose, which are to be supplied by the Owner.
 - i. All materials to be provided by the Contractor shall be in conformity with thespecifications laid down in the Contract and the Contractor shall if required by theEngineer-in-charge, furnish proof to the satisfaction of the Engineer-in-charge to thateffect.
 - ii. IfrequiredtheContractorshallathisownexpenseandbefore15daysofuseofthematerial submit to the Engineer-in-charge the samples of materials proposed to beused in the works. The Engineer-in-charge shall within seven days of receipt of samplesor within such further period as he may require and intimate to the Contractor Page 55 of 206

inwriting, whether samples are approved by himornot. If samples are not approved,

 $the {\tt Contractors hall for thwith submit fresh samples to the {\tt Engineer-in-charge for his approximation oval complying with the {\tt specifications laid down in the {\tt Contract}}.$

- iii. The Engineer-in-charge shall have full powers for removal of any or all of the materialsbrought to site by the Contractor which are not in accordance with the Contractspecificationsordonotconformincharacterorqualityofsamplesapprovedbyhi m.In case of default on the part of the Contractor in removing rejected materials, theEngineer-in-charge shall be at liberty to have them removed by other means. TheEngineer-in-charge shall have full powers to procure other proper materials to besubstituted for rejected materials and in the event of the Contractor's refusal tocomply,hemaycausethesametobesuppliedbyothermeans.Allcosts,whichmaybeinc urredforsuchremovaland/orsubstitution,shallbebornebytheContractor.
- iv)The Contractor shall indemnify the Owner, its representatives or employees of theOwneragainstanyaction, claimorproceeding relating to infringementor use of any particular to the construction of the constr tentordesignoranyallegedpatentordesignrightsandshallpayanyroyaltiesorother charges which may be payable in respect of any article or materials or $part there of included in the scope of {\sf Contractor}. In the event of any claim being made or act$ ion being brought against the Owner, its representatives or employees of the Owner in respect of any such matters as a foresaid, the Contractor shall immediately benotified thereof, provided that such indemnity is not applicable when such in fringement has taken place in complying with the specific direction sissued by the Owner;buttheContractorshallpayanyroyaltiesorotherchargespayableinrespectof any such use, the amount so paid being reimbursed to the Contractor only if theuse was theresult of any drawings and/or specifications issuedafter Contractagreementissigned.

Further, if any such action is instituted by any agency after closure of Contractor any struct ure or utility is eroded or damaged within 2 to 3 years of performance on account of related work of the Contractor, the Contractor shall be liable for such cost and expenses for which Contractor shall provide corporate warranty for further 2 years be yond defect liability period.

- v. Subject as hereinafter provided in Condition 7.1 all charges on account of octroi, entrytax,salestax,royaltyandotherdutiesonmaterialsobtainedfortheworksfromanys ource(excludingmaterialssuppliedbytheOwner)shallbebornebytheContractor.
- vi. The Engineer-in-charge shall be entitled to have tests carried out as specified in theContract for any materials supplied by the Contactor other than those for which, asstated above, satisfactory proof has already been furnished, at the cost of theContractor and the Contractor shall provide at his expense all facilities which theEngineer-in-charge may require for the purpose. If no tests are specified in theContract, and such tests are required by the Engineer-in-charge, theContractorshallp rovideall facilities required for the purpose and the charges for the set as a not inaccordance with the provision of the Contract. The cost of materials consumed in testshall beborne by theContractorinal cases except when otherwise provided.
- vii. InadditiontheContractorshallperform/submitathisowncostsuchtests/samplesformi ngoutofthesamematerials&insameprocess,suchasconcretecube,weldedtest piece etc. as may be required by the Engineer-in-charge made out of the materialsissued by the Owner or Contractor, except for the costs of materials used in suchtests/samples.
- b) MaterialtobeprovidedbytheOwner:

Materials to be provided by the Owner are shown in Schedule `B' which also stipulate splace of issue and rate(s) to be charged, free issue, allowable % of loss in respect thereof.

- i. IfafterissueofLOItheContractordesirestheOwnertoprovideanyothermaterials, suchm aterialsmaybeprovidedbytheOwner, ifavailable, atratestobefixedbytheEngineer-in-ch arge. The Owner reserves the right not to issue any such materials. Thenon-issue of such materials will not entitle the Contractor for any compensationwhatsoevereitherintimeorincost.
- ii. (1)

TheOwnermayissuealIthematerialsasperContracttotheContractoratitswarehouse, site stores, or nearest railhead. In case the materials are issued at thenearestrailheadthecostoftransportationonlyfromsuchrailheadtothesitewillbebo rnebytheOwnersubjecttothereasonablenessofsuchtransportationcostbeingcertified bytheEngineer-in-charge.Allothercostssuchasloading,unloading,transportation to Contractor's go-down, storage etc till the materials are utilized inthe works and return of surplus & scrap, if any to the Owner shall be to the account oftheContractor.

(2) For the materials listed in Schedule B, which the Owner has agreed to supplyto the Contractor, he shall give a reasonable notice in writinghis requirements to theEngineer-in-charge in accordance with the agreed phased programme. Such materialsshallbesuppliedforthepurposesoftheContractonlyandthevalueofmaterialss osuppliedattheratesspecifiedintheaforesaidscheduleshallbesetoffordeducted, as and when materials are consumed in items of work for which payment is beingmade to the Contractor from any sums there or which may thereafter become due

totheContractorundertheContract.AtthetimeofsubmissionofbillstheContractorshall properly account for the materials issued to him to the satisfaction of theEngineer-in-charge,certifythatbalanceofmaterialssuppliedisavailableatsite.Thev alueofthestores/materialsasmaybesuppliedbytotheContractorbytheOwnershallbed ebitedtotheContractor'saccountattheratesasshowninSchedule-Bandiftheyarenoten teredintheSchedule,theyshallbedebitedatcostpricewhichforthepurposeoftheContra ctshallincludecostoftransportation&allotherexpenseswhatsoever such as normal storage, supervision charges which shall have beenincurredinobtainingthesameattheOwner'sstores.

- iii. TheContractorshallbearthecostofloadingandtransportationtosite, unloading, storingundercoverasrequired, assemblingandjoiningtheseveral partstogetherasnece ssaryandincorporating or fixing materials in the works including all preparatory work of w hateverdescription as may be required.
- iv. Surplus of all materials issued to the Contractor by the Owner for use, inclusion orfixingintheworks(includingpreparatorywork)shall,oncompletionoronforeclosures of the works, be returned by the Contractorathis expense, at the place of issue, after making due allowance for actual consumption, reasonable wear andtearand/orwaste.Thereasonablewastagepercentageshallhoweverbementionedi n Schedule-B against each items. If the Contractor is required to deliver such materials at a place other than the place of issue, he shall do so and the transportation charge of the state of the staesfrom the site to such place, less the transportation charges which would have beenincurred by the Contractor had such materials been delivered at the place of issue, shall be borne by the Owner.
- *v.* ReturnofsurplusMaterials/scraps: Percentage of wastage acceptable to the Owner in respect of cement, structural Page 58 of 206

 $steel, reinforcements teel and other such materials is furnished in {\tt Schedule-B}.$

Cutpieces of reinforcement rods of length 3.0 meters and above shall be accepted by the Owner and credited at the issuerates. Other pieces below 3 mtrlength shall be returnable eass crapto Owner if issued.

- vi. Surplus materials returned by the Contractor shall be credited to him by the Engineer-in-charge at rates not exceeding those at which these were originally issued to himafter taking into consideration any deterioration or damage which may have beencausedtothesaidmaterialswhilstinthecustodyoftheContractor.
- vii. If on completion of works the Contractor fails to return surplus materials out of thoseprovided by the Owner, then in addition to any other liability which the Contractorwould incur, the Engineer-in-charge may, by a written notice to the Contractor, require him to pay within a fortnight of receipt of the notice, for such unreturned surplus materials at the rates specified in Special Conditions of Contract.
- *viii. Emptycementbags:* Therateofcementisinclusiveofcostofbag.
- c) General:

Materials required for the works, whether brought by the Contractor or provided by theOwner,shallbestoredbytheContractoronlyatplacesapprovedbytheEngineer-in-charge.St orageandsafecustodyofmaterialsshallbetheresponsibilityoftheContractor.

- i. Owner'sofficialsconcernedwiththeContractshallbeentitledatanytimetoinspectand examine any materials intended to be used in works either on the site or at factoryor workshop or other place(s) where such materials are assembled, fabricated,manufacturedoratanyplace(s)wherethesearelyingorfromwhichtheseare beingobtained and the Contractor shall give such facilities as may be required for suchinspectionandexamination.
- ii) All materials brought to the site shall become and remain the absolute property of theOwner and shall not be removed from the site/shifted to any place inside the plantwithout the prior written permission of the Engineer-in-charge. But whenever theworksarefinallycompletedorterminatedandadvanceifanyinrespectofanysuchmat erialisfullyrecovered,theContractorshallathisownexpenseforthwithremovefrom the site all surplus material originally brought by him and upon such removal,thesameshallrevestinandbecomethepropertyoftheContractor.
- iii) All plant, tools & other materials brought by the Contractor to the site must bedeclared at the time of bringing the same to the site & security gate pass obtainedbeforeenteringtheplantasrecordsandreference.
- iv) It shall be the duty of the Contractor to inspect the materials issued to him at the timeoftakingdelivery&satisfyhimselfthattheyareingoodconditionafterthematerialsh avebeendeliveredbytheOwner,itshallbetheresponsibilityoftheContractortokeep them in good condition and if the materials are damaged or lost, at any time,they shall be repaired and/or replaced by him at his own cost according to thedirectionoftheEngineer-in-charge.
- v) AccountofthematerialsissuedbytheOwnershallbemaintainedbytheContractorindicat ing the daily receipt, consumption and balance in hand in a manner prescribedby the Engineer-in-charge. All connected papers, requisitions, issues, returns etc. shallbealwaysavailableforinspectionintheContractor'sofficeatsite.
- vi) Materials & equipments supplied by the Owner shall not be utilized for any other purpose(s) then issued for.

4.15 LABOUR:

- 4.15.1 The Contractor shall employ labour in sufficient numbers to maintain the required rate of progress / attend the repair-maintenance on it's occurrence and of quality to ensureworkmanshipofthedegreespecified in the Contractand to the satisfaction of the Engineer -in-charge. The Contractor shall not employ in connection with the works any person who has not completed his/hereighteen years of age.
- 4.15.2 TheContractorshallinrespectoflabouremployedbyhimorhissubcontractorscomplywithorcauset obecompliedwiththeContractorsLabourRegulationsasperclause8.5inregardtoallmattersprovidedtherein.
- 4.15.3 Employees State Insurance (ESI) Act is applicable to all locations of OPGC. The Contractor shallbe liable to pay his contribution and the employees contribution to the State InsuranceScheme in respect of all labour employed by him for the execution of the Contract, inaccordance with the provision of "The Employees State Insurance Act, 1948" as

amendedfromtimetotime.Incase,theContractorfailstosubmitfulldetailsofhisaccountoflabo uremployed and the contribution payable, the Engineer-in-charge shall recover from therunning bills of Contractor an amount of contribution as assessed by him. The amount sorecovered shall be adjusted against the actual contribution payable for Employees StateInsurance.

- 4.15.4 The Engineer-in-charge shall on a report having been made by an Inspecting Officer as defined in the Contractor Labour Regulations have been the power to deduct from the money due to the Contractor any sum required or estimated to be required for making good the losssuffered by a worker or worker by reason of non-fulfillment of the Conditions of the Contractfor the benefit of workers, non-payment of wages or of deductions made from his or theirwages which are not justified by the terms of the Contract or non-observance of the saidContractorsLabourRegulations.
- 4.15.5 In the event of the Contractor committing a default or breach any of the provisions of theaforesaid Contractors Labour Regulations as amended from time to time or furnishing anyinformation or submitting or filling any Form/Register/Slip under the provisions of theseRegulations which is materially incorrect, then on the report of the Inspecting Officers

asdefinedintheContractorsLabourRegulationstheContractorshallwithoutprejudicetoanyoth er liability pay to the Owner a sum not exceeding Rs.500.00 as liquidated damages foreverydefault,breachorfurnishing,making,submitting,fillingmateriallyincorrectstatementas

may be fixed by the Engineer-in-charge and in the event of the Contractor's defaultcontinuinginthisrespecttheliquidateddamagesmaybeenhancedtoRs.500.00perdayfo reach day of default subject to a maximum of ten percent of the contract value. The Engineer-in-charge shall deduct such amount from bills or security deposit of the Contractor and creditthe same to the Welfare Fund constituted under Contract Labour (R&A) Act 1970. ThedecisionoftheEngineer-in-chargeinthisrespectshallbefinalandbinding.

- 4.15.6 **Model Rules for Labour Welfare**: The Contractor shall at his own expense comply with orcausetobecompliedwithModelRulesforLabourWelfareasmentionedat(Cl.8.4)orrulesfram ed by Government from time to time for the protection of health and for making sanitaryarrangements for workers employed directly or indirectly on the works. In case the Contractorfails to make arrangements as aforesaid, the Engineer-in-charge shall be entitled to do so andrecoverthecostthereoffromtheContractor.
- 4.15.7 **Safety code:** The Contractor shall at his own expense arrange for the safety provisions as perSec-IXorasrequiredbytheEngineer-in-charge,inrespectofalllabourdirectlyorindirectlyem

ployed for performance of the works and shall provide all facilities in connection there with. Incase the Contractor fails to make arrangements and provide necessary facilities

as a foresaid, the Engineer-in-charge shall be entitled to do so and recover 150% of the cost of materials from the Contractor.

- (i)Failure to comply with Model Rules for labour welfare, Safety Code or the provisionsrelatingtoreportonaccidentsandtograntofmaternitybenefitstofemalewor kersshall make the Contractor liable to pay to the Owner as liquidated damages an amountnot exceeding Rs.500.00 for each default or materially incorrect statement. ThedecisionoftheEngineer-in-chargeinsuchmattersbasedonreportfromtheInspectin g Officer as defined in the Contractors Labour Regulations at Clause 8.5 shallbefinalandbindinganddeductionsforrecoveryofsuchliquidateddamagesmaybe madefromanyamountpayabletotheContractor.
- 4.16 TheContractorshallnotbepermittedtoenterin(otherthanforinspectionpurpose)ortakeposses sion of the site until instructed to do so by the Engineer-in-charge in writing. TheportionofthesitetobeoccupiedbytheContractorshallbedefinedand/ormarkedonthesite plan, failing which these shall be indicated by the Engineer-in-charge at site and theContractor shall on no account be allowed to extend his operations beyond these areas. Inrespect of any land allotted to the Contractor for purposes of or in connection with theContract, the Contractor shall be a licensee subject to the following and such other terms andconditionsasmaybeimposedbylicenser:-
 - (i) that he shall pay a nominal license fee of Rs.1 per year or part of a year for use andoccupation, in respectofe a chandevery separate areas of landallotted to him.
 - (ii) that such use or occupation shall not confer any right of tenancy of the land to theContractor,
 - (iii) thattheContractorshallbeliabletovacatethelandondemandbytheEngineer-in-charge,
 - (iv) thattheContractorshallhavenorighttoanyconstructionoverthislandwithoutthewritte npermissionoftheEngineer-in-charge.Incaseheisallowedtoconstructanystructure he shall have to demolish and clear the same before handing over thecompletedworkunlessagreedtothecontrary.
- 4.16.1 The Contractor shall provide, if required on the site, all temporary access thereto and shallalter, adapt and maintain the same as required from time to time and shall take up and clearthem away as and when no longer required and as and when ordered by the Engineer-in-chargeandmakegoodalldamagesdonetothesite.

4.17 SETTINGOUTTHEWORKS:

The Engineer-in-charge in case of construction work shall supply dimensioned drawings, levelsand other information necessary to enable the Contractor to set out the works and theContractorshallsetouttheworksandberesponsiblefortheaccuracyofthesame.Heshallrecti fy at his own cost and to the satisfaction of the Engineer-in-charge any error found at anystage, which may arise through inaccurate setting out unless such error is based on incorrectdata furnished in writing by the Engineer-in-charge. The Contractor shall protect and preserveall benchmarks used in setting out the works till end of the Defects Liability Period unless

the Engineer-in-charge direct their earlier removal. But incase of maintenance, the Engineer-in-charges hall direct the Contractor to attend certain job provided that all spares & consumables with in the scope of Owner area vailable to the Contractor.

4.18 SITEDRAINAGE:

Allwater, which may accumulate on the sited uring the progress of the works or intrenches and exc avations, from other than the Excepted Risks, shall be removed from the site to the satisfaction of the Engineer-in-charge and at the Contractor's expense.

4.19 NUISANCE:

TheContractorshallnotatanytimedo, cause or permitanynuisance on site or do anything which shall cause unnecessary disturbance or inconvenience to Owners, tenants or occupiers of other properties near the site and to the public ingeneral.

4.20 MATERIALSOBTAINEDFROMEXCAVATION/SCRAP/REJECTS:

Materials of any kind obtained from excavation on the site shall remain the property of the Owner and shall be disposed of as the Engineer-in-charge may direct.

4.21 TREASURE, TROVE, FOSSILS etc:

All fossils, coins, articles of value or antiquity and structures and other things of geological orarchaeological interest discovered on the site shall be the absolute property of the Ownerand the Contractor shall take reasonable precautions to prevent his workmen or any otherperson from removing or damaging any such article or thing shall immediately upon discoverythereof and before removal acquaint the Engineer-in-charge with such discovery and

 $carry out the {\sf Engineer-in-charge's directions as to the disposal of the same at the expense of the {\sf O} wher.$

4.22 **PROTECTIONOFTREES:**

Trees designated by the Engineer-in-charge shall be protected from damage during the course of the works and earth level within 1 meter of each such tree shall not be charged. Wherenecessarysuchtreesshallbeprotectedbyprovidingtemporaryfencing.

4.23 TheContractorshallprovideandmaintainathisownexpensealllights,guards,fencingandwatch & ward as and when necessary or required by the Engineer-in-charge for the protectionoftheworksorforthesafetyandconvenienceofthoseemployedontheworksorthepublic.

4.24 CONTRACTOR'SSUPERVISION:

The Contractor shall either himself supervise the execution of the works or shall appoint acompetent person duly authorizing him to supervise the work on his behalf, if the Contractorhashimselfnotsufficientknowledgeandexperiencetobecapableorreceivinginstruc tionsorcannotgivehisfullattentiontotheworks.Suchemployeehavingpowerofattorneyshallb e considered to have the same force as the Contractor himself. If the Contractor fails toappointasuitablepersonacceptabletotheEngineer-in-charge,theEngineer-in-chargeshallha ve full powers to suspend the execution of the works until such date as a suitable person isappointedandtheContractorshallbeheldresponsibleforthedelaysocausedtotheworks.

4.25 INSPECTIONANDAPPROVAL:

All works embracing more than one process / stage shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice to the Engineer-in-charge or his authorized representative when each stage is ready. In default of due notice the Engineer-in-chargeshall been titled to appraise the quality and extent thereof.

4.25.1 No work shall be covered up or put out of view without the approval of the Engineer-in-chargeorhisauthorized representative and the Contractor shall afford fullop portuni

ty for examination and measurement of any work which is about to be covered up or put out of

view and for examination of foundations before permanent work is placed thereon. TheContractor shall give due notice to the Engineer-in-charge or his authorized representativewheneveranysuchworkisreadyforexaminationandtheEngineer-in-chargeorhi srepresentative shall without unreasonable delay, unless he considers it unnecessary andadvises the Contractor accordingly, attend for the purpose of examination and measuringsuchworkorofexaminingsuchfoundations.IntheeventofthefailureoftheContracto rtogive such notice he shall, if required by the Engineer-in-charge, uncover such work at theContractor's expense.

4.25.2 The Engineer-in-charge or his representative shall have powers at any time to inspect and examine any part of the works and the Contractor shall give such facilities as may be required for such inspection and examination.

4.26 DUTIES&POWERS OFENGR-IN-CHARGE'S REPRESENTATIVE:

- 4.26.1 The duties of the representative of the Engineer-in-charge are to watch and supervise theworks and to test and examine any materials to be used or workmanship employed inconnectionwiththeworks.Heshallhavenoauthoritytoorderanyworkinvolvinganyextrapay mentbytheOwnerortomakeanyvariationintheworks.
- 4.26.2 TheEngineer-in-chargemayfromtimetotimeinwritingdelegatetohisrepresentativeanyof the powers and authorities vested in the Engineer-in-charge and shall furnish to theContractor a copy of all such written delegation of powers and authorities. Any writteninstructionorwrittenapprovalgivenbytherepresentativeoftheEngineer-in-chargetot heContractor within the terms of such delegation shall bind the Contractor and the Owner asthoughithasbeengivenbytheEngineer-in-charge.
- 4.26.3 Any work or material approved by the representative of Engineer-in-charge shall not bedisapprovedbyEngineer-in-chargeandcannotorderthepullingdown,removalorbreakingup thereofatContractor'scost.
- 4.26.4 If the Contractor shall be dissatisfied with any decision of the representative of the Engineer-in-chargeheshallbeentitledtoreferthemattertotheEngineer-in-chargewhoshallthe reuponconfirm,reverseorvarysuchdecision.Noclaimoflossesallegedtohavebeencausedby any discrepancies out of instructions, doubts or misunderstanding shall in any event beadmissible.

4.26.5 OwnernotboundbypersonalconsentofanyofficerotherthanEngineer-in-charge.

The Contractor shall not be entitled to any increase on the scheduled rates or any other rightsorclaimswhatsoeverbyreasonofanyconsent, explanation, statementorallegedundersta nding, promise or guarantees given or to have been given to him by any person otherthanEngineer-in-chargeinwriting.

4.27 REMOVALOFWORKMEN:

The Contractor shall employ in and about the Execution of the works only such persons as areskilledandexperiencedintheirseveraltradesandtheEngineer-in-chargeshallbeatlibertytoo bjecttoandrequiretheContractortoremovefromtheworksanypersonemployedbytheContrac torinorabouttheexecutionoftheworkswhointheopinionoftheEngineer-in-chargemisconduct shimselforisincompetentornegligentintheproperperformanceofhisduties and such person shall not be again employed in the work without permission of theEngineer-in-charge.

4.28 UNCOVERINGANDMAKINGGOOD:

 $\label{eq:contractorshall} The Contractors hall uncover any part of the works and/ormake openings in orthrough the same a sthe Engineer-in-charge may from time to time direct for his verification and shall$

reinstateandmakegoodsuchparttothesatisfactionoftheEngineer-in-charge.Ifanysuchpartha sbeencovereduporputoutofviewafterbeingapprovedbytheEngineer-in-chargeand is subsequently found on uncovering to be executed in accordance with the Contract, theexpensesofuncoveringand/ormakingopeninginorthrough,reinstatingandmakinggoodth esameshallbebornebytheOwner.InanyothercaseallsuchexpensesshallbebornebytheContra ctor.

4.29 WORKDURINGNIGHTSUNDAYSANDHOLIDAYS:

SubjecttoanyprovisionstothecontrarycontainedintheContract,noneofthepermanentworkse xceptemergencymaintenancework&operationshallbecarriedoutduringnightoronSundaysor onauthorizedholidayswithoutthepermissioninwritingoftheEngineer-in-charge. But in case of maintenance Contract, the Contractor shall be required to work anytimeanydayasrequiredbyEngineer-in-charge.

4.30 TIMEOFPERFORMANCE:

The work covered by this Contracts hall be commenced on due date/within 15 days of issue of Letter of Intentas applicable. The Contract or should be arinmind that time is the essence of the Contract, unless such time be extended at the discretion of the Owner.

4.31 FORCEMAJEURE:

- 4.31.1 Anydelaysinorfailureofperformanceofeitherpartiestheretoshallnotconstitutedefaulthereun der or give rise to any claims for damages if any, to the extent such delays in or failureof performance caused by occurrences such as acts of God or the public enemy, expropriationorconfiscationoffacilitiesbyGovernmentAuthority,compliancewithanyorderor requestofanyGovernmentauthorities,actofwar,rebellion,civilcommotion,sabotage,fire,floo d,earthquake,explosion,implosion,riots,publicstrifeprovidedalwaysthatsuchoccurrencesres ultinimpossibilityofperformanceoftheContract.
- 4.31.2 Only events of force majeure, which impede the execution of the Contract at the time ofoccurrence, shall be taken into cognizance.

4.32 FAILUREOFCONTRACTORTOCOMPLYWITHTHEPROVISIONSOFTHECONTRACT:

- 4.32.1 If the Contractor refuses or fails to execute the work or any part thereof with suchdiligence or fails to perform any of his obligations under the Contract or in any mannercommits a breach of any of the provisions of the Contract it shall be open to the Owner atitsoptionbyserving7daysnoticetotheContractorto:
 - a) Determine the Contract: in which event the Contract shall stand terminated and shallceasetobeinforceandeffectonandfromthedateappointedbytheOwneronthatbe half,whereupontheContractorshallstopforthwithanyoftheContractworkthenin progress, except such work as the Owner may in writing require to be done tosafeguardanypropertyorwork,orinstallationfromdamagesandtheOwnerforitspart, may take over the work remaining unfinished by the Contractor and completethe same through fresh Contractor or by other means, at the risk and cost of theContractor, and any of his sureties if any, shall be liable for any excess cost at the ratesspecifiedinthescheduleofquantitiesandrates.
 - b) Without determining the Contract: to take over the work of the Contractor or any partthereofandcompletethesamethroughafreshContractororbyothermeansattheris k and cost of the Contractor. The Contractor and any of his sureties are liable forany excess cost over and above the cost at the rates specified in the schedule ofquantities/rates,incurredbysuchworkshaving beentaken overandcompleted by

 $the {\sf Owner}. Besides the {\sf Contractors} hall also beliable for any compensation accruing due to any loss in curred by the {\sf Owner}.$

- c) Inothercases,thedecisionoftheOwnerisbindingontheContractor.
- 4.32.2 Intheeventsofclause4.32.1(a)
 - a) The whole or part of the security deposit furnished by the Contractor is liable to beforfeited without prejudice to the right of the Owner to recover from the Contractor the excess cost referred to in the sub-clause afores aid, the Owner shall also have the right of taking possession and utilizing in completing the works or any part thereof, such of materials, equipments and T&P available at work site belonging to the Contractor as may be necessary and the Contractor shall not be entitled for any compensation for use or damage to such materials, equipments, tools & plants.
 - b) The amount that may have become due to the Contractor on account of the workalready executed by him shall not be payable to him until after the expiry of six (6)calendar months reckoned from the date of termination of Contract or from takingover of the work or part thereof by the Owner as the case may be, during which periodtheresponsibilitiesforfaultymaterialsorworkmanshipinrespectofsuchworkshal lundertheContract,restexclusivelywiththeContractor.Thisamountshallbesubjecttodedu ctionofanyamountsduefromtheContractortotheOwnerunderthetermsoftheContract tauthorizedorrequiredtobereservedofretainedbytheOwner.
- 4.32.3 Before termination of the Contract as per clause 4.32.1(a)or(b) if in the judgment of theOwner,thedefaultordefaultscommittedbytheContractoris/arecurableandcanbecuredby theContractorifanopportunitygiventohim,thentheOwnermayissuenoticeinwritingcallingth eContractortocurethedefaultwithinsuchtimespecifiedinthenotice.
- 4.32.4 The Owner shall also have the right to proceed or take action as per 4.32.1(a) (b), in the eventthattheContractorbecomesbankrupt,insolvent,compoundswithhiscreditors,assignsth eContract in favour of his creditors or any other persons, or being a company or a corporationgoesintoliquidationprovidedthatinthesaideventsitshallnotbenecessaryfortheO wnertogiveanypriornoticetotheContractor.
- 4.32.5 Termination of the Contract as provided for in sub-clause 4.32.1(a)&(b) shall not prejudice oraffecttherightsoftheOwner,whichmayhaveaccrueduptothedateofsuchtermination.
- 4.33 Contractorremainsliabletopaycompensationifactionnottakenasperclause4.32
- 4.33.1 a) Non-exercise of power conferred on the Owner by Clause 4.32 when due, shall not imply awaiver of any of the conditions and shall be exercisable in the event of any further case of default by the contractor for which he is declared liable to pay compensation. The liability of Cont ractor for past & future compensation shall remain unaffected. The Owner may takepossession of all or any T&P, materials and stores at the work site belonging to Contractor on payment at Contract rate/market rate as the case may be or rate worked out by Engineer-in-charge. Otherwise, Engineer-in-chargemayservenotice to remove such T&P, material alsandstores from the site within astipulated time. In the event the Contractor, b) In other cases, the decision of the Owner is binding on the Contractor.
- 4.33.2 IntheeventofClause4.32,Clause4.33shallbeapplicablewithoutanyprejudice.Butincaseofsuchcan cellationtheOwnershallnotholdtheestateofthedeceasedContractorand/orthesurvivingpart
- $ners of the {\tt Contractor's firm liable for any damages for non-completion of {\tt Contract}.$
- 4.34 NOCOMPENSATIONFORALTERATIONINORRESTRICTIONOFWORK:

At any time from the commencement of the work if the Owner decides forwhatsoeverreason, not to carry out the whole work or part thereof as specified in the Tender, then Ownershall give notice in writing of the fact to the Contractor, who shall have no claim to anypayment or compensation on whatsoever account (profit or advantage which he might havederived by executing the work in full) neither shall have any claim for compensation by reasonof any alterations having been made from the original specification, drawings, designs andinstructionswhichmayinvolveanycurtailmentoftheworkasoriginallycontemplated.

4.35 CHANGEOFCONSTITUTION:

WhentheContractorisapartnershipfirmthepriorapprovalinwritingfromtheOwnershallbe obtained before any changes are made in the constitution of the firm. Where theContractor is an individual or a Hindu Undivided family business concern, such approval asaforesaid shall, likewise be obtained before such Contractor enters into any partnership

firm,wherethereconstitutedfirmwouldhavetherighttocarryouttheworkherebyundertakenb y the Contractor. In either case if prior approval is not obtained, the Contract shall bedeemed to have been allotted in contravention of clause 4.41 hereinafter and the action and consequences hallen sure as provided in that clause.

4.36 TERMINATIONOFCONTRACTFORDEATH:

If the Contractor is an individual or a proprietary concern and the individual or the proprietordies or if the Contractor is a partnership concern and one of the partners dies then, unless theOwner is satisfied that the legal representative of the individual or the proprietary concern orthe surviving partners of partnership firm are capable of carrying out and completingContract, theOwnerisentitledtocanceltheContractfortheincompletepartwithoutbeingin anyway liable for any compensation payment to the establishment of the deceasedContractor and/or to the surviving partners of the Contractors firm on account of thecancellation of Contract. The decision of the Owner in such assessment shall be final andbindingontheparties. In the events of satisfaction of the Engineer-in-charge that subcontract any shall provide competent and efficient supervision or, if over the workentrusted to them, may allow the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to complete the work contracted in case of the surviving partner to contracted in case of the surviving partner to contracted in case of the work contracted in case of tf partnership firm at the discretion of the Owner. In the event of such cancellation, theOwnershallnotholdtheestateofthedeceasedContractorand/orthesurvivingpartnersofth eContractor'sfirmliablefordamagefornotcompletingtheContract.

4.37 TERMINATIONOFCONTRACTFORCONTINUOUSUNSATISFACTORYPERFORMANCE:

TheContractmaybeterminatedatanytimebygiving15daysnoticeincaseperformanceoftheCon tractorisfoundtobecontinuouslyunsatisfactory.IncaseofterminationofContracteitheronexpi ryofContractperiodorduringtheperiodofContractduetocontinuouspoorperformance, labour unrest, indiscipline Owner shall have etc., no liability for providingemployment/compensationtothelaboursengagedbyContractorunderanycircumst ance.EMD/SecurityretainedfromtheContractorsofarandpayableifanyonanyotheraccountss hall be forfeited. Balance work shall be carried out at the cost & risk of the defaultingContractor.

4.38 MEMBERSOFTHEOWNERNOTINDIVIDUALLYLIABLE:

No official or employee of the Owner including Engineer-in-charge shall in any way

bepersonally bound or liable for the acts or obligations of the Owner under the Contract oranswerableforanydefaultoromissionintheobservanceorperformanceoftheacts,matterorthing swhicharehereincontained.

4.39 CONTRACTOR'SOFFICE/STORE/WORKSHOPATSITE:

The Contractor shall provide and maintain an office outside the plant gate for his SiteIncharge, staff and such office shall be opened at all reasonable hours to receive instructions, notices or other communications. The Contractor at all times hall maintain as ite instruction book and compliance of these shall be communicated to the Engineer-in-charge from time to time and the whole documents to be preserved and handed overafter completion of works.

4.40 CONTRACTOR'SSUBORDINATESTAFFANDTHEIRCONDUCT:

4.40.1 The Contractor on award of the work shall identify, authorize and depute a qualifiedemployeeoftheContratorhavingsufficientexperienceincarryingoutworkofsimilarnature to whom the equipments, materials if any shall be issued and instruction for works given. TheContractor shall also provide to the satisfaction of the Engineer-in-charge sufficient andqualified staff to supervise the execution of the work, competent site-in-charge, foremen andleading hands including those specially qualified by previous experience to supervise thetypesofworkscomprisedintheContractinsuchmanneraswillensurethebestqualityandexp editious working. At any time in the opinion of the Engineer-in-charge any additional, qualified experiencedstaffforsupervisionisconsiderednecessary, theywillbeprovid edbytheContractorwithoutadditionalfinancialburdentoOwner.TheContractorshallensureto the satisfaction of the Engineer-in-charge competent and efficient supervision over the workentrusted to them including their Sub-Contactors if any (deployed with prior permission

 $of the {\sf Owner}) and comply all statutory provisions of {\sf ContractLabour} ({\sf R\&A}) {\sf Acts 1970}.$

- 4.40.2 IfanyoftheContractor'ssite-in-charge, assistants, foremenorany employee in the opinion of Engineer-in-charge be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties or that in the opinion of the Owner's Engineer-in-charge undesirable for administrative or any other ground, the continuance of such person(s) in Contractor establishment, then at the directions of Engineer-in-charge theContractorshallatonceremove such person(s) from the establishment of the Contractor at the opinion opinion of the Contractor at the tore opinion op
- 4.40.3 The Contractor shall be responsible for the proper behavior of all the staff, foremen, workmenand others, shall exercise proper degree of control over them and in particular withoutprejudicetothesaidgeneralitytheContractorshallbeboundtoprohibit/preventanyoft heemployeesfromtrespassingoractinginanywaydetrimentalorprejudicialtotheinterestofthe communityorthepropertiesorOwner'slandorpropertiesintheneighborhood.Intheevent of such trespassing, the Contractor shall be responsible for all consequent claims oractions for damages or injury or any other grounds whatsoever. The decision of the Engineer-in-chargeuponanymatterarisingunderthisclauseshallbefinal.
- 4.40.4 AllContractorspersonnelenteringintotheOwnerspremisesshallbeproperlyidentifiedbybadg es of a type acceptable to the Owner which must be worn at all times on Ownerspremises.
- 4.40.5 Attention is drawn to the Contract Labour (R&A) Act 1970 whereby no master-servantrelationship is created between the Owner and the Contractor's labour and no claim foremployment / compensation of any such labour from the Owner shall be tenable orentertained.
- 4.41 SUBLETTINGOFWORK:

In normal cases, sub-contracting is not permitted. But howeverEngineer-in-charge maypermitthesameincaseheissatisfiedthatsubcontractingisrequired.Nopowerofattorney holderotherthanaregularemployee,partnerordirectorofthefirmshallbeconsideredforSite In-charge of Contractor. No Contractor with the power of attorney of some otherContractorshallbeentertainedtoexecuteanywork.TheContractorisadvisednottoenteri ntoContractbeforeobtainingtheconsentofEngiener-in-chargetothateffect.

4.41.1 No part of the Contract nor share or interest therein shall in any manner or degree betransferred, assigned or sublet by the Contractor directly or indirectly to any person, firm or cor poration what so ever except as provided for in the succeeding sub-clauses without the prior consent in writing of the Owner.

4.41.2 Contractorsliabilitynotreducedbysubcontract:

NotwithstandinganysubcontractwithsuchapprovalasaforesaidandnotwithstandingthattheE ngineer-in-chargeshallhavereceivedcopiesofanysubcontracts,theContractorsshallbeandsha llremainsolelyresponsibleforthequalityandtimelyexecutionoftheworksandperformance of all the conditions of the Contract in all respects as if such subcontract orsublettinghadnottakenplace,andasifsuchworkhadbeendonedirectlybytheContractor.

4.41.3 Noremedyforactiontakenunderclause4.41:

For action taken by the Owner under the clauses hall not relieve the Contractor of any of his liabilitie sunder the Contractor giver is eto any right or compensation, extension of time or otherwise.

4.42 **POWEROFINTERFERENCE:**

- 4.42.1 If the Contractor shall not commence the work in the manner described in the ContractdocumentsorifheatanytimeintheopinionoftheEngineer-in-charge
 - i) FailstocarryouttheworksinconformitywiththeContractdocumentsor
 - ii) FailstocarryouttheworksinaccordancewiththeContractschedule
 - iii) Substantiallysuspendworkortheworksforaperiodofsevendayswithoutapprovalofthe Engineer-in-charge,
 - iv) FailstocarryoutandexecutetheworkstothesatisfactionoftheEngineer-in-charge.
 - v) Fails to supply sufficient or suitable constructional plant, temporary works, labour,materialsorotherthingsorTools&Plants,minimuminfrastructurefacilities.
 - vi) Commit, suffer or permit any other breach of any of the provisions of the Contract onhis part to be performed or observed or persist in any of the above mentionedbreachesoftheContractforsevendays,afternoticeinwritingshallhavebeen giventotheContractorbytheEngineer-in-chargerequiringsuchbreachtoberemedied,or
 - vi) If the Contractor during the continuance of the Contract shall become bankrupt, makeany arrangement for composition with his creditors orgo into liquidation, the Ownershall have the power to enter into the works and take over the possession of thematerials, temporary work, constructional plant, stock and complete the works byother Contractors, firm or corporation as the Owner in his absolute discretion maythink proper to employ and to use or authorize the use of any materials, temporaryworks,constructionalplant,andstockasaforesaid,withoutmakingpaymentt otheContractor for the said materials, other than such as may be certified in writing by theEngineer-in-charge to be reasonable & not being liable for any loss or damage thereto.TheOwnershallbyreasonofhistakingpossessionoftheworkoroftheworksbein gcompleted by other Contractor (due account being taken of any such extra work orworkswhichmaybeomitted)thentheexcessamountifanyshallbedeductedfromany money which may be due for work done by the Contractor under the Contract andnotpaidfor.Anyfurtherdeficiencyshallforthwithbemadegoodbysellinsuch

manner and for such price as hemay think fit allorary of the constructional plant, material set tc. available at site.

4.43 CONTRACTOR'SRESPONSIBILITYFORCOMPLIANCEOFSTATUTORYNORMS&OTHERRULESAPPLICABLETOSUCH CONTRACT:

The Contractor shall conform in all respect to the provisions of statutory regulations, ordinances, bylaws of any local or duly constituted authorities or public bodies, which may beapplicable from time to time to the works or any temporary works. The Contractor shall keepthe Owner indemnified against all penalties and liabilities of every kind, arising out of non-adherence to such statutes, ordinances, laws, rules, regulations etc. All costs & expenses borne by the Owner inway of penalty, associated litigation setc. on account of Contractor r's default shall be recovered from the Contractor from his dues or from the dues of any other contractor act with Owner or as debtliability.

4.44 OTHERAGENCIESATSITE:

The Contractor shall have to execute the work in such place and condition where otherAgencieswillalsobeengagedforotherworkssuchassitegrading,filling&leveling,electrical& mechanical engineering works, operation & maintenance activities of running plant etc. Noclaim shall be entertained due to work being executed in the above circumstances. TheContractorshalldotheirworkinatime&mannertakingallsafetyprecautionssoastoavoidinte rference with other activities but their activities should not lag behind. Engineer-in-charge'sdecisioninthisrespectisfinal.

4.45 CORRESPONDENCES/NOTICES:

4.45.1 PowerofAttorney:

Owner/ Engineer-in-charge shall ordinarily correspond with the Contractor at the addressfurnishedbytheContractor.AnynoticetobesenttotheContractorbyOwnershallbesent byregisteredposttotheaddressoftheContractor.TheContractorshallsubmitduepowerof attorney in favour of their site-in-charge at site for the purpose of receipt of all letters, notices, drafts, cheques, job instruction and execution of job etc. from Owner and tocorrespond&transactwithOwneronbehalfofContractor&pertainingtothisContractonly.

4.45.2 AddressforCorrespondence:

The Contractor shall give full & correct address of his Registered Office with Telephone (s),Fax (s) and E-mail numbers etc. if any to the Owner for correspondence. In case of any changeofaddressduringcurrencyoftheContract,theContractorshallforthwithintimatethesam etotheOwnerfailingwhichsuchactshallbetreatedasafraudulentmotiveofContractor.

4.45.3 NoticetotheContractor:

Any notice may be served on the Contractor or his site-in-charge at the job site or byregisteredmaildirectlytotheaddressfurnishedbytheContractororboth.Proofofissueofsuchn oticeshallbeconclusiveontheContractorhavingbeendulyinformedofthecontentstherein.

4.45.4 NoticetotheOwner:

AnynoticetobegiventotheOwnerunderthetermsofContractshallbeservedbysendingthe same by Registered mail to or delivering the same at the respective site office of IbThermalPowerStation,addressedtotheEngineer-in-charge.

4.45.5 Noticestolocalbodies:

i) Contractor shall comply with and give all notices required under any Governmentauthority, instrument, rule or ordermade under any Actof Parliament, State

lawsorany regulation or bye-laws of any local authority relating to the works. He shall beforemakinganyvariationfromtheContractdrawingnecessitatedbysuchcompliancegive totheEngineer-in-chargeawrittennoticegivingreasonsfortheproposedvariationando btaintheEngineer-in-charge'sinstructionsthereon.

ii) The Contractor shall pay and indemnify the Owner against any liability in respect ofanyfeesorchargespayableunderanyActofParliament,StatelawsoranyGovernment instrument, rule or order and any regulations or byelaws of any localauthorityinrespectoftheworks.

4.45.6 Instructions&Notices:

- Subject as otherwise provided in this Contract, all notices to be givenand all otheractionstobetakenonbehalfoftheOwnermaybegivenortakenbytheEngineer-in-c harge/Officer-in-chargeorhisauthorizedrepresentative.
- ii) All instructions, notices and communications etc., under the Contract shall be given inwritingandifsentbyregisteredposttothelastknownplaceofabodeorbusinessofthe Contractor shall be deemed to have been served on the date when in the ordinarycourseofpostthesewouldhavebeendeliveredtohim.
- iii) The Contractor or his site-in-charge shall be in attendance at the site (s) during allworkinghoursandshallsuperintendtheexecutionoftheworkswithsuchadditionalass istance in each trade, as the Engineer-in-charge may consider necessary. In no casesite-in-charge shall remain absent from site without prior permission of the Engineer-in-charge.OrdersgiventotheContractor'ssite-in-chargeshallbeconsideredto havethesameforceasiftheyhadbeengiventotheContractorhimself.
- iv) TheEngineer-in-chargeshallcommunicateorconfirmtheinstructionstotheContractor in respect of the execution of work in a field work Site Order BookmaintainedintheofficeoftheEngineer-in-chargeandtheContractororhisauthoriz ed representative shall confirm receipt of such instructions by signing therelevant entries in this Book. If required by the Contractor, he shall be furnished a copyofsuchinstruction(s).

4.46 RIGHTSOFOWNERONVARIOUSINTERESTS:

- TheOwnerreservestherighttodistributetheworkbetweenmorethanoneContractor. The Contractor shall cooperate and afford the other Contractors allreasonable opportunity for access to the works for the carriage and storage ofmaterialsandexecutionoftheirworks.
- ii) Wherever the work being done by any department of the Owner or by the Contractorengaged by the Owner as per the condition of work covered by this Contract,

therespectiverights and various interests involved shall be determined by the Engineer-inn-charge to secure the completion of the various portions of the work in general harmony.

4.47 NEGOTIATIONOFRATES:

IncaseOwnerfindsthelowestpricetobeathighersideinconsiderationofmarketpriceofvarious inputs including labour component, may call the lowest Bidders for negotiation of pricebasedonanalysisoftheirrateetc.

4.48 ISSUEOF LOI:

The Letter of Intents hall be released by the Owner or the Engineer-in-charge with the rates and oth erterms & conditions finally arrived at negotiation. The Contractor shall commence performance of the Contract on the basis of this LOI/Work order.

4.49 Firmworkordershallbereleased/Contractagreementexecutedwithin30daysofissueofLetter of Intent. Letter of Intent / Work Order shall be accepted by the Contractor byendorsement and return the duplicate copy of work order endorsed as unconditionalacceptance of rates & terms and conditions of work order to the Owner and form part ofContract.

EndofSection-IV

SECTION-V

5.0 SCOPE&PERFORMANCEOFWORK

5.1 SCOPEOFWORK:

Scope of particular work in detail is available in Special Conditions of Contract for informationofBidders.

5.2 USEOFCONTRACTDOCUMENTS:

The Contractor shall be provided drawings free of charge with tender documents / during theprogressofwork.HeshallkeeponecopyofContractdocumentswithdrawingsonthesiteingoo dorderandthesameshallatallreasonabletimesbeavailableforinspectionandusebytheEnginee r-in-charge/hisrepresentatives/otherinspectingofficers.

- 5.2.1 NoneofthesedocumentsshallbeusedbytheContractorforanypurposeotherthanthatofthisContract.
- 5.2.2 The Contractor shall take necessary steps to ensure that all persons employed on any work inconnection with this Contract have noticed that the Indian Official Secret Act 1923 (XIX of1923) applied to them and shall continue to apply even after the execution of such worksundertheContract.

5.3 WORKSTOBECARRIEDOUT:

Theworkstobecarriedoutunder the Contract shall except as otherwise provided in the seconditio ns include all labours, materials, tools, plant, equipment and transport which may be required in preparation of and for full & entire execution for completion of works. The description given in the schedule of quantity shall unless otherwise stated, be held to includewaste of materials, carriage and cartage, carrying in, return of empties, hoisting, setting, fitting and fixing in position and all other labour necessary in and for the full and entireexecution and completion as aforesaid in accordance with good practice and recognizedprinciplesofengineering.

5.4 SCHEDULEOFWORK:

After receipt of LOI the schedule of work shall be drawn by the Contractor taking into accountand dovetailing the technicality of work, sequence of work, material availability, materials

on transit, materials on order, we ather condition, nature & urgency of works, their permutation &

combination for an integrated approach for timely completion of the works at ultimatecost. The Engineer-in-charge after scrutinizing the schedule submitted by the Contractor shallapprovebefore actual work commences.

5.5 EXECUTIONOFWORKS:

All the works shall be executed in strict conformity with the provisions of the Contractdocuments, specifications and instructions by the Engineer-in-charge whethermention edinthe Contract or not. The Contractor shall be responsible for ensuring that works are executed in the most substantial and proper workman like manner using the quality materials and labour during the progress of and up to completion of job in strict accordance with the specifications and to the entires at is faction of the Engineer-in-charge.

5.6 COORDINATIONANDINSPECTIONOFWORKS:

The coordination and inspection of the day-to-day work under the Contract shall be theresponsibilityoftheEngineer-in-chargeorhisauthorizedrepresentatives.Afieldworkorderb ook shall be maintained by the Contractor in which written instruction for specific job beentered.TheseshallbesignedbytheContractororhisauthorizedrepresentativebywayofack nowledgmentwithin12hours.

5.7 GENERALCONDITIONOFWORK:

The working time of the work is 48 hours per week per man in general. In case of overtimework is permitted in case of need, the Owner will not compensate for the same. Shift workingat2to3shiftsperdaywillbecomenecessaryandtheContractorshalltakethisaspectintoc onsideration while formulating his rates for Tender. No extra claim will be entertained bytheOwneronthisaccount.

5.8 REPORTINGOFWORKSTATUS:

 $\label{eq:contractors} The Contractor shall submitted the Engineer-in-charge reports a tregular intervals regarding the property of the contract of the cont$

5.9 DRAWING/SEQUENCETOBEPROVIDEDBYOWNER:

Intheprogressofwork, detailed working drawing son the basis of which actual execution of the work has to proceed, shall be furnished in stages. The Contractor shall be deemed to havegone through the drawings issued to him thoroughly and carefully, in conjunction with all other connected drawings and discrepancies if any shall be brought to the notice of the Engineer-in-charge, before actually carrying out the works. Wherever drawing is not possible, sequence of operation or work instructions shall be given by the Engineer-in-charge as in case of maintenanceworksetc.

5.10 LIABILITIESFOR DEFECTS, IMPERFECTIONS etc. AND RECTIFICATION THEREOF:

If its hall appear to the Engineer-in-charge that any work has been executed with unsound, imperfe ct or unskilled workmanship, or with materials of any inferior description, or that anymaterialsorarticlesprovidedbytheContractorfortheexecutionofworkareunsoundorofgu alityinferiortothatContractedfor,orotherwisenotinaccordancewiththeContract,theContract orshallondemandinwritingfrom the Engineer-in-charge or his authorized representative specifying the work, materials or articles complained of, notwithstanding that he same may have been inadvertently passed, certified and paid for, forthwith rectify orremove and reconstruct that work so specified and provide other proper and suitable materials or articles at his own charge and cost, and in the event of failure to do so within a particular the second state of the secoeriod to be specified by the Engineer-in-charge in his demand aforesaid the Engineer-in-charge may on expiry of notice period rectify or removes, and re-execute the work or removeand replace with others, the materials or articles complained or as the case may be at the riskand expense in all respects of the Contractor. The decision of Engineer-in-charge as to anyquestionarisingunderthisclauseshallbefinalandconclusive.

5.11 TWELVEMONTHSPERIODOFDEFECTLIABILITYFROMTHEDATEOFACTUALCOMPLETIONOFWORKRECORDEDINCOMP LETIONCERTIFICATE:

From the commencement to completion of the work, the Contractor shall takefull responsibility for the care of all works including all temporary works and in case any damage, loss or injury shall happen to the work or to any part thereof or to any temporary works from any cause what so ever, shall a this own cost repair and make good the same so that on completion the work shall be in good order and in conformity in every respects with therequirements of the Contract and the Engineer-in-charge's instruction.

Thedefectliabilityperiodshallbe12monthsfromthedateofcompletion.Oncompletionofsuch period and on final certification of satisfactory performance report of the Contractedwork from Engineer-in-charge, the security deposit shall be released. The period of 12 monthsshall be counted from the date of completion of last repair of defect in case of any defectappears after completion of work / from the date of completion as mentioned in completioncertificate.

5.12 TRAININGOFAPPRENTICES:

TheContractorshallduringthecurrencyoftheContractwhencalleduponbytheEngineer-in-char geengageandalsoensureengagementbysubcontractorandotheremployedbytheContractor in connection with the works, such number of Apprentices in the categoriesmentioned in Schedule A and for such periods as may be required by the Engineer-in-charge.The Contractor shall train them as required under the Apprentices Act, 1961 and shall beresponsibleforallobligationsoftheemployerundertheAct, excludingtheliabilitytomakepay menttoApprenticesasrequiredundertheAct.

5.13 Contractor'sliability&insurance:

From commencement to completion of the works, the Contractor shall take full responsibility of the site for taking care and precautions to prevent loss or damage and to minimizel ossord amage to the maximum extent possible and shall beliable for any damage or loss that may happen to the works or any part thereof and all Owner's T & P from any cause what so ever (save and except the Excepted Risks) and shall at his own cost repair and make good the sames othat at completion of the works, all Owner's T & P shall be in good order and condition and in conformity in every respect with the requirements of BI standard and to the satisfaction of the contraction of the contracti

thesatisfaction of Engineer-in-charge where BIS is not available.

- 5.13.1 IntheeventofanylossordamagetotheworksoranypartthereofortoanyT&Portoanymaterial or articles at the site from any of the Excepted Risks the following provisions shallapply:
 - a) The Contractor shall, as may be directed in writing by the Engineer-in-charge, removefrom the site any debris and so much of the works as shall have been damaged, takingtotheOwner'sstoresuchT&P,articlesand/ormaterialsasmaybedirected:
 - b) The Contractor shall, as may be directed in writing by the Engineer-in-charge, proceedwith the erection and completion of the works under and in accordance with the provisions and conditions of the Contract.

5.13.2 CompensationonaccountoflossduetodamageforExceptedperils:

The value of re-execution of work, which is lost or damaged in Excepted Risks, shall beascertained in the same rate under the Contract and added to the contract sum as deviation.Provided the Contractor was alert and has taken sufficient precaution as a man of

general prudences hould have taken to prevent the loss or damage to minimize the amount of such loss in his own case.

- 5.13.3 Where Owner's buildings or a part thereof is rented to the Contractor he shall insure theentirebuildingifthebuildingoranypartthereofisusedbyhimforthepurposeofstoringorusing materials of combustible nature, as to which the decision of the Engineer-in-charge shallbefinalandbinding.
- 5.13.4 The Contractor shall indemnify and keep indemnified the Owner against all losses and

claimsforinjuriesordamagetoanypersonsoranypropertywhatsoeverwhichmayariseoutofori n consequence of the construction and maintenance works and against all claims, demands,proceedings, damages, costs, charges and expenses whatsoever in respect of or in relationthereto.

- 5.13.5 Beforecommencingexecutionofthework,theContractorshall,withoutinanywaylimitinghis obligations and responsibilities under this condition, insure against any damage, loss orinjury which may occur to any property. (excluding that of the Owner but including theOwner'sbuildingrentedbytheContractorwhollyorinapartandanypartofwhichisusedby him for storing combustible materials), or to any person (including any employee of theOwner)byorarisingoutofcarryingoutoftheContract.
- 5.13.6 The Contractor shall at all times indemnify the Owner against all claims, damages orcompensation under the provisions of Payment of Wages Act, 1936. Minimum Wages Act, 1948; Employer's Liability Act, 1938; the Workmen's Compensation Act, 1923; IndustrialDisputesAct, 1947andtheMaternityBenefitAct, 1961oranyModificationsthereofora nyotherlawrelatingtheretoandrulesmadehereunderfromtimetotimeorasaconsequenceofa nyaccidentorinjurytoanyworkmanorotherpersonsinorabouttheworks, whetherintheemploy mentoftheContractorornot, saveand except where such accidentorinjury has resulted form any act of the Owner, his agents or servants, and also against all costs, chargesand expenses of any suit, action or proceedings arising out of such accident or injury and against all sum or sums which may with the consent of the Contractor be paid to compromiseor compound any claim. Without limiting his obligations and liabilities as above provided, theContractor shall insure against all claims, damages or compensation payable under theWorkmen's Compensation Act, 1923 or any modification thereof or any other law relatingthereto.
- 5.13.7 TheContractorshallensurethatsimilarinsurancepoliciesaretakenoutbyhissubcontractors (if any) and shall be responsible for any claims or losses to the Owner resulting from theirfailuretoobtainadequateinsuranceprotectioninconnectionthereof.TheContractorshall produce or cause to be produced by his subcontractors (if any) as the case may be, therelevant policy or policies and premium receipts as and when required by the Engineer-in-charge.
- 5.13.8 If the Contractor and/or his subcontractors (if any) shall fail to effect and keep in force theinsurancereferredtoaboveoranyotherinsurancewhichhe/theymayberequiredtoeffectun der the terms of the Contract then and in any such case the Owner may, without beingbound to, effect and keep in force any such insurance and pay such premium or premiumsas may be necessary for the purpose and from time to time deduct the amount so paid by theOwner from any moneys due or which may become due to the Contractor or recover thesameasadebtduefromtheContractor.

Theaboveconditions are applicable for value of work below one crore rupees. But incase of contract involving considerable risk or damage and of value more than one crore, the Contractor has to obtain blanket insurance policy for all his works, T&P and man power and assign infavour of the Owner.

5.14 Retentionofcost&expenses

a) In the event the contractor is involved with violation of any act(s) relating to safety, environment, labourandwork mencompensation, taxes & duties etc. and consequentleg alaction & penalty during execution of contract the issue is open in relevant Govt. Deptt., estimated value of costand expenses towards the same shall be retained from the final billt ill disposal of the case.

b) If any contractor avoids to attend workmen's compensation commissioner court onsummon, he shall not be entertained for award of any future contract in OPGC. The cost

& expenses of compensation towards the death or permanent disablements hall be deducted from the corresponding Contractor any other Contract executed by the same Contract or in OPG Corlastly as debt liability.

EndofSection-V

SECTION-VI

6.0 CERTIFICATEANDPAYMENT:

6.1 SCHEDULEOFQUANTITY/PRICESCHEDULEANDPAYMENT:

6.1.1 Contractor'sremuneration:

ThepricetobepaidbytheOwnertotheContractorforthewholeoftheworkdoneandforthe performance of all the obligations undertaken by the Contractor under the Contract shallbe ascertained by the application of the respective rates in schedule of quantity / priceschedule (the inclusive nature of which is more particularly defined by way of application butnotoflimitationofitemofactivities, materials&expensesspecifiedinclauseNo.6.1.2) and pay ment to be made accordingly to the work actually executed and approved by the Engineer-in-charge. The sum so ascertained shall (exception only as and to the extent expresslyprovidedherein)constitutetheremunerationoftheContractorundertheContractan dnofurther or other payment whatsoever shall be or become due or payable to the ContractorundertheContract.

6.1.2 Activities&expensestobeincludedinrates:

The prices/rates agreed both by the Contractor and Owner and subsequently incorporated in the Contract shall remain firm till the issue of Final Certificate and shall not be subject to escalation. The said schedule of quantity / price schedule shall be deemed to include and cover all costs, expenses and liabilities of every description and all risks of every kind to

betakeninexecution, completion and handing over the work to the Owner by the Contractor. The Contractors hall be deemed to have known the nature, scope, magnitude and the extent of the works and materials required though the Contract Document may not fully and precisely furnish them. He shall make such provision in the rates accepted as he may consider necessary to cover those of such items of work and materials as may be reasonable and necessary to complete the work. The opinion of the Engineer-in-charge as to the items of work which are necessary and reasonable for completion of work shall be final and binding on Contractor although the same may not be shown on or described specifically in Contract document.

6.1.3 Ratestocovertaxesandduties:

No exemption or reduction of custom duties, excise duties, sales tax, works Contract tax, entry tax or any port duties, royalty, transport charges, stamp duties of Central or StateGovernment or Local Body or Municipal Taxes or duties, taxes or charges, income taxwhatsoever will be granted or obtained and all expenses of which shall be deemed to beincludedinandcoveredbytheacceptedrates. The Contractor shall also obtained payforall permitsor the privileges necessary to complete the work.

6.1.4 Acceptedratescannotbealtered

Forworkunderitemratebasis, noalteration will be allowed in the rates by reasons of works or any part of them being modified, altered, extended, diminished or omitted. The accepted rates is offully inclusive rates which have been agreed by the Contractor and the Owner and cannot be altered under any circumstances. However, if the quantity of such modification, alteration, extension, reduction or omission is substantial and exceeds 5% in the Contract price, the variation in rate may be examined and amended by Engineer-in-charge on recommendation of Contract Review Meeting (refer Clause No. 4.11)

6.1.5 **The rates to cover for working in operating plant**: Contractor's rates shall be deemed toinclude the factors such as work shall be carried out in operating plant and shall take sufficientcareinmovingtheplants, equipments and materials from one placeto another, so that the eydo not cause any damage to any person or to the property of the Owner or to third party including overhead and underground cables/pipelines. In the event of such damage including event of **206**

entuallossofgenerationandoperationoftheplantorservicesinanyplantorestablishmentasesti matedbytheOwnerorascertainedbythethirdpartyshallbebornebythe Contractor. The aforesaid risk shall be covered by insurance as per Clause 5.13.5 This shallbeapplicablewhenContractvalueismorethanonecrore.

6.2 PROCEDUREFORMEASUREMENTOFWORKEITHERINPROGRESSORFINAL:

6.2.1 Methodsofmeasurement:

Themeasurementshallbetakeninaccordancewiththeproceduresetinthespecifications.No local or general method of measurement shall be adopted. In case the method of measurement is not specified in the specifications, the procedure of Bureau of IndianStandardshallprevail.

6.2.2 Measurementofworkinprogress:

All measurements shall be in metric system. All the works in progress will be jointly measuredby the representatives of Owner and the Contractor progressively in construction & civilmaintenance work. In case of mechanical /electrical / C&I maintenance & upkeepment worketc. the item of work performed by the Contractor shall be recorded daily

preferably immediately on completion in the mannerstipulated inconditions of Contract. Such m easurements will be recorded in the prescribed measurement book by the representative of Own erands igned by both parties as to ken of acceptance by both either on completion of certain item or inaninterval of days or hours as the case may be.

6.2.3 Finalmeasurement:

On completion of work final measurement shall be taken in the similar fashion as statedearlier and sum total of part measurement shall be compared. Final measurement shall beconsidered for final payment.

6.2.4 Beforetakingmeasurementsofanyconstructionwork,theEngineer-in-chargeorhisauthorized representative for the purpose shall give a notice with reasonable time to theContractor. In case of operation or maintenance work the Contractor or his authorized representative shall obtain the signature of Engineer-in-charge or his representative insupport of completion of any item of work to the satisfaction of Engineer-in-charge. All thesedetails shall be recorded in measurement book in prescribed format to be provided byEngineer-in-charge/printedstandardMeasurementBookavailableinthemarket.

If the Contractor fails to attend or to send an authorized representative for measurementafter such a notice or failure of Engineer-in-charge on Contractor's request in case

of maintenancework as the case may be or fails to counter sign or to record the objection within a week from the date of measurement, then in any such event, the measurement taken by the Engineer-in-charge/his representatives hall be taken to be correct measurement of work.

- 6.2.5 The Contractor shall, without extra charge, provide assistance in every measurement inrespectoflabourandotherthingsnecessaryformeasurements.
- 6.2.6 If the Contractor objects to any of the measurements recorded in the measurement book, themattershallbereferredtothesubsequentContractReviewMeeting.Thedecisiontakeninthe ContractReviewMeetingshallbefinal&binding.

6.2.7 Billing:

The Contractor shall submit bill in approved proforma in accordance with the Contract termsandtheagreedbillingschedulesinduplicatetotheEngineer-in-charge/Officer-in-chargeas the case may be giving abstract and detailed measurement for the various items executedduring a pre-determined period / month, as the case may be. In case of

maintenance/upkeepment contract, monthly bill shall be preferred during 1st week of the succeedingmonth.Incaseofconstructionworkthebillshallbefurnishedafterachievingmilestoneor as

provided in the Contract. The Engineer-in-charge shall take or cause to be taken the requisitemeasurements for the purpose of having the same verified and the claim as far as admissible, adjusted, if possible, before the expiry of 21 days from the presentation of the bill. This isapplicableforrunningbillsonly.

6.3 PAYMENTOFCONTRACTOR'SBILL:

Payment due to the Contractor shall be made by the Owner, by Crossed Account PayeechequeforwardingthesametoregisteredofficeorthenotifiedofficeoftheContractor.The cheque shall also be handed over to the Contractor or their Site-in-charge if authorized forthe purpose against due receipt. In no case will Owner be responsible if the cheque is mislaidor misappropriated by unauthorized person / persons. Demand draft may also be issued afterdeductionofbankcommissionchargesifrequestedbytheContractor.

AllpaymentshallbemadeinIndiancurrencyonly.

6.3.1 Paymentofrunningbill:

InterimbillsshallbesubmittedbytheContractoratintervalsmentionedinScheduleAonorbefore the date fixed by the Engineer-in-charge for the work executed. The Engineer-in-charge/Officer-in-chargeshallthenarrangetohavethebillverifiedbycomparingwi ththemeasurementalreadytaken.

- 6.3.2 On certification of Engineer-in-charge, payment to which the Contractor is consideredentitledbywayofinterimpaymentshallbemadeforalltheworkexecuted,afterdedu ctingthere from the amounts already paid, the security deposit and such other amounts as may bedeductibleorrecoverableintermsoftheContract.
- 6.3.3 Payment of the Contractor's interim bills shall be made by the Owner within 21 days from thedateofacceptanceofthebillbyEngineer-in-charge.
- 6.3.4 Any interim certificate given relating to work done may be modified or corrected by any subsequent interim certificate or by the final certificate. No certificate of the Engineer-in-charge supporting an interim payment shall itself be conclusive evidence that any work towhichitrelatesis/areinaccordancewiththeContract.

6.4 RECEIPTOFPAYMENT:

Receipt of payment made on account of work when executed by a firm, must be signed bythe Contractor in case of proprietary firm and otherwise a person holding due power ofattorney in this respect on behalf of the Contractor, except when the Contractors aredescribedintheirTenderasalimitedcompanyinwhichcasethereceiptsmustbesignedinthe name of the company by one of its principal officers or by some other persons havingauthoritytogiveeffectualreceiptforthecompany.

6.5 COMPLETIONCERTIFICATE:

6.5.1 EligibilitycriteriaforissueofCompletionCertificate:-

No certificate of completion shall be issued nor shall the work be considered to be completedtill the Contractor shall have removed from the premises on which the work has beenexecuted, all such scaffolding, sheds and surplus materials except such as are required forrectification of defects, rubbish and all huts and sanitary arrangements required for hisworkmen on the site in connection with the execution of the work, as shall have been erectedby the Contractor or the workmen and cleaned all dirt from the parts of building (s) in or uponoraboutwhichtheworkhasbeenexecutedorofwhichhemayhavehadpossessionforthepu rpose of the execution thereof and cleaned floors, gutters and drains, eased doors andsashes, oiled locks and fastenings, labeled keys clearly and handed them over to the Engineer-in-chargeandmadethewholepremisesfitforimmediateoccupationorusetothesatisf

 $action of the {\tt Engineer-in-charge.} If the {\tt Contractors hall fail to comply with any of the}$

requirementsofthisconditionsasaforesaidonorbeforethescheduleddateofcompletionof the works, the Engineer-in-charge may at the expense of the Contractor fulfill suchrequirements and dispose of the scaffoldings, surplus materials and rubbish, etc. as he thinksfit and the Contractor shall have no claim in respect of any such scaffolding or surplusmaterials except for any sum actually realized by the sale thereof less the cost of fulfilling therequirements and any other amount that may be due from the Contractor. If the expenses offulfilling such requirements are more than the amount realized on such disposal as aforesaid, the Contractorshallforthwithondemandpaysuchexcess.

6.5.2 ApplicationforCompletionCertificate.

AssoonastheworkiscompletedandtheContractorfulfillshisobligationsinallrespect,heshall be eligible to apply for Completion Certificate. The Owner or his representative shallnormally issue to the Contractor the Completion Certificate within 30 days after receiving anapplication from the Contractor after verifying from the completion documents and satisfyinghimselfthattheworkhasbeencompletedinaccordanceandassetoutintheconstructio nand erection drawings and the Contract Documents. In case of operation or maintenanceContract,satisfactoryperformanceduringContractperiodshallbebasisforissueof CompletionCertificate.

6.5.3 IssueofCompletionCertificate:

Onreceiptofrequestfrom the Contractor Engineer-in-charge shall inspect whole of the work and shall is sue acertificate of completion indicating:-

- a) Dateofcompletionofwork
- b) ValueoftheContract/valueofworkexecuted
- c) Qualityofperformance
- d) Levelofsafetymaintainedduringthework.
- 6.5.4 If at any time before completion of the entire work, items or groups of items for whichseparateperiodsofcompletionhavebeenspecified, have been completed the Engineer-in -charge can take possession of any such parts being hereinafter in this condition referred to as'therelevant part') notwithstanding anything expressed or implied elsewhere in this Contract:

(a) Within thirty days of the date of completion of such items or groups of items or ofpossessionoftherelevantparttheEngineer-in-chargeshallissueCompletionCertificateforth

e 'relevant part' provided the Contractor fulfils his obligations under clause 6.5.1 for the'relevantpart'.

(b) The Defects Liability Period in respect of such items and the 'relevant part' shall be deemed to have commenced from the certified date of completion of such items or the 'relevant part'asthecasemaybe.

(c) The Contractor may reduce the value insured under Clause 5.13 by the full value of the complete ditems or 'relevant part'as estimated by the Engineer-in-charge for this purpose. Th is estimates hall be applicable for this particular purpose only.

(d) InsuchcaseCompensation/LiquidatedDamagefordelayshallbecalculatedinaccordancewi thClause6.9ontotalvalueofthework,lessthevalueof'relevantpart'takingintoconsiderationth eduedateofcompletionasperContractandsubsequenttimeextension,ifany.

6.6 FINALPAYMENT:

During progress of work in case of construction work and period fixed for payment in case of provision of services such as operation and maintenance, running bills shall be preferred by the the service se

Contractor as per the terms of Contract and shall be paid on the basis of measurementcertificationofEngineer-in-charge/Officer-in-chargefromtimetotimeorinfixedi ntervals.Butfinalbillshallbepaidonreceiptof-

- i) Finalbill(n'th&finalbillmustbewrittenoverthebill)
- ii) Measurementbookwithallitssupportingdocuments
- iii) CompletionCertificateofEngineer-in-charge
- iv) Storeclearance
- v) Evidenceinsupportofclearanceoflabourdues.
- vi) EvidenceinsupportofpaymentofPFdues
- vii) NoclaimcertificatebytheContractor
- viii) Totalamountofdues, less
 - a) Paymentalreadymadethroughrunningbills
 - b) Advancesifany
 - c) Penaltyifany
 - d) Liquidateddamage
 - e) Amountstowardsthecostoftools&plantsnotreturnedtowarehouse
 - f) Valueofthesurplusofmaterialissuednotreturnedtostore.
 - g) AnyestimatedamountonaccountofdefaultofContractorinstatutoryorenviron mentalmatterordisputeopeninCourtofLaw.
 - h) ClearancefromPersonnel&Administrationdepartmentrelatingtorentforacco mmodation,water&electricitybillsetc.

6.7 TERMSOFPAYMENT:

(a) TherunningbillcorrespondingtothetermsofContractraisedbytheContractorshallbepaidto himoncertificationofEngineer-in-charge.

(b)The bill for any permissible period shall be submitted within 7 days of expiry of the saidperiod and payment shall be released within 21 days of submission of the bill provided thesameisreceiptedbyEngineer-in-charge.

(c) AllstatutorydeductionsleviedbytheGovt.orotherstatutoryauthoritiesattherateprevailing atthetimeofpaymentofbillshallbedeductedfromtherunningbills.

(d) The Engineer-in-charge reserves the right to effect deductions towards penalty & other recoveries if any, under the terms & conditions of Contract.

(e) Final bills hall be settled after submission of the same with all related documents as per Clause 6.8

6.8 TIMELIMITFORPAYMENTOFFINALBILL:

6.8.1 The final bill shall be submitted by the Contractor within three months of physical completion of the work. No further claims can be made by the Contractor after submission of the final billand all claims shall be deemed to have either been included in the final bill or waived and extinguished. Payment of those items of the bill in respect of which there is no dispute and ofitems in dispute for quantities and rates as approved by Engineer-in-charge, shall be madewithin the period specified herein this clause, the period being reckoned from the date ofreceipt of the bill by the Engineer-in-charge. If the decision of Engineer-in-charge is not agreedbytheContractor,thedisputeeitherinquantityorrateorbothshallbereferredtoContract ReviewMeetingandthedecisionmadethereofshallbefinal&bindingonbothparties.

The time limit for release of final payment corresponding to the Contract value are furnishedbelow:-

(a)Contractvaluenotexceeding	Fourmonths	fromthedateof
Rs.5lakhs		acceptanceof
		Finalbillbythe

Engr-in-charge

(b)Contractvalueexceeding

Sixmonth ----do-----Rs.5lakhs

Provided the Contractor has furnished all required documents in accordance to clause 6.6. The period of release of fund shall be counted from the date of compliance of last documents or formalities.

For above purpose, original Contract value or the actual value of the work whichever is highershallbetakenintoconsideration.

6.9 LIQUIDATEDDAMAGESFORDELAY:

If the Contractor fails to maintain the required progress in terms of a chieving miles to ne fixed in the time e&progressscheduleortocomplete the work as the case may be under Contract & clear the site on the site of the siorbeforetheduedateorextendeddateofcompletiontheyshallwithoutprejudice to any other liquidated shall liable right or remedy be for damage as stipulated below or such small amount as may be fixed by the Engineer-in-charge on the Contract value and the contract value of thoftheworkoractualvalueoftheworkwhicheverishigherforeveryweekduringwhichtheprogres s remains below the specified time of completion subject to the total amount of compensation for delay to be paid under this condition shall not exceed the under notedpercentage of the Contract value or of the Contract value of the item or group of items of work for which as eparate period of completion is given:

This will also be applicable to items or group of items for which separate period of completionhasbeenspecified.

	<u>Completionperiod</u>	%ofContract/Work valueper week	Maximum % ofContract/ workvalue
a.	DueCompletionperiod (asoriginally stipulated) not exceeding 6 months	@1%	10%
b.	Due Completion period (as originallystipulated)exceeding6monthsbutn ot exceeding2years	@0.5%	7.5%
С.	DueCompletionperiod(asoriginally stipulated)exceeding2years	@0.25%	5%

Rates&upperlimitofLiquidatedDamage:

6.9.1 The amount of liquidated damage (LD) may be adjusted or set-off against any sum payable to the Contractor under this or any other Contract with the Owner. In case at the time of theamount of LD comes to the notice of the Owner the Contractor does not have any amountpending with the Owner, the Contractor shall be served with a notice and in turn theContractor has to deposit the said amount in shape of D/D with the Owner in the fashionmentionedearlier.

EndofSection-VI

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7.0 STATUTORYOBLIGATION&INSURANCE

7.1 TAXES:

- 7.1.1 TheContractorshalldefrayalltaxessuchastoll,localtaxes,exciseduty,royalty,incometax,sales tax, GST, work contract tax and other payments and compensation, if any in connectionwiththeprocurementandhandlingofmaterials,fabricationandexecutionofworkso ranymethodorprocessconnectedwiththeworks.Salestax,Entrytax,Excisedutyandanyotherta x on materials required for the work & works shall be payable by the Contractor and theOwner will not entertain any claim whatsoever in this respect. The final rate is inclusive ofworkcontracttax&othertaxesapplicableincludingGSTtothisworkormaterialsthereto.
- 7.1.2 Notwithstanding anything contained elsewhere in the Contract, the Owner shall deduct atsource from the payments due to the Contractor, the taxes as required under Odisha SalesTaxActorasamendedfromtimetotimeorunderanyotherstatute.ItisfortheContractorto deal with the Sales Tax authorities directly in respect of any claim or refund relating to theabove deductions and the Owner shall not be liable or responsible for any claims or paymentsor reimbursements in this regard. Income tax as applicable shall be deducted form all runningbills.

7.2 INSURANCE:

The Contractor shall obtain insurance coverage to the construction work & related materialsagainstlossunderforcemajeureandassignthepolicytotheOwnerwhereriskinvolvem entis expected. The Contractor shall also at his own expenses carry and maintain group insurancewithaccidentalbenefitfromreputedinsurancecompaniestothesatisfactionoftheOw nerasfollows:-

7.2.1 EmployeesStateInsuranceAct:

AtpresentthisareaisincludedinthescopeofESIscheme.TheContractorhastoacceptfulland exclusive liability for compliance with all obligations imposed by the Employees StateInsurance Act, 1948, and the Contractor further has to defend, indemnify and hold Ownerharmless from any liability or penalty which may be imposed by the Central, State or LocalAuthority by the reason of any asserted violation by Contractor or subcontractor of

the Employees State Insurance Act, 1948 and also from all claims, suits or proceeding that may be brought against the Owner arising under growing out of or by reasons of the work provided for by this Contract whether brought by employees of the Contractor, by third parties or by the contractor of the contract of the con yCentralorStateGovernmentAuthorityoranypoliticalsub-divisionthereof.TheContractoragre estofillinwith the Employees State Insurance Corporation, the Declaration Forms and all forms be required in respect of the Contractor's which may or subcontractor's employees, whose aggregate remuneration is Rs. 6500.00 permonthor lessor as a mended from ti metotime and who are employed in the work provided for or those covered by ESI from time totime under the agreement. The Contractor shall deduct and secure the agreement of thesubcontractor to deduct the employees' contribution as per the first schedule of theemployee's State Insurance Act from wages and affix the employee's contribution cards atwages payments intervals. The Contractor shall remit and secure the agreement of thesubcontractor to remit to the State Bank of India, employee's State Insurance CorporationAccount, and the employee's contribution as required by the Act. The Contractor agr eestomaintain all cards and records as required under the Act in respect of employee's and payments and Contractors hall secure the agreement of the subcontractor to maintain such relations of the subcontractor to the suecords. Any expenses incurred for the contribution, making contributions or maintainingrecordsshallbetotheContractororsubcontractor'saccount.

TheOwnershallretainsuchsumasmaybenecessaryfromthetotalContractvalueuntiltheContrac tor shall furnish satisfactory proof that all contributions as required by the employeesState Insurance Act, 1948, have been paid. This will be pending on the contactor when theemployee'sStateInsuranceActisextendedtotheplaceofwork.

7.2.2 WorkmenCompensationandEmployer'sLiabilityInsurance:

Insurance shall be effected for all the Contractor's employees engaged in the performance of this Contract. If any of the work is sublet, the Contractor shall require the subcontractor toprovideworkmen's compensation and employee's liability insurance for the latter's employee sifsuchemployees are not covered under the Contractor insurance.

7.2.3 AnyotherinsurancerequiredunderLaworbyOwner:

Contractor shall also carry and maintain any and all other insurances, which he may berequired under any law from time to time. He shall also carry and maintain any otherinsurance, which may be required by the Owner.

7.2.4 AccidentorInjurytoworkmen:

TheOwnershallnotbeliablefororinrespectofanydamagesorcompensationpayablebylaw in respect or in consequence of an accident or injury to any workmen or other persons in the Employment of the Contractor or any subcontractor save and except any accident orinjury resulting from any willful act or default of the Owner, his agents or servants and theContractor shallindemnify and keep indemnified the Owner against all such damages and compensation(saveandexceptasaforesaid)andagainstallclaims,demands,proceedings,c osts,chargesandexpenses, whatsoeverinrespectorinrelationthereto.

7.2.5 TransitInsurance:

The Contractor shall obtain adequate Transit insurance coverage at his own cost in respect of all items to be transported by the Contractor to the site of work.

7.3 EMPLOYEESPROVIDENTFUND:

TheContractorhastoobtainP.F.codenumbersfromtheP.F.Commissionerandphotocopyof such coverage certificate shall be submitted to Engineer-in-charge prior to commencementofwork.TheContractorhastofurnishcertifiedchallancopyshowingtheamount depositedagainstthisparticularworkiftheContractorexecutesworksatdifferentplacesinIndia anddepositthetotalamountinonechallanonly.Inadditiontothis,Contractorshallfurnishanund ertaking with a list of deployed Contract labour for whom such amount is deposited.Contractor shall comply all P.F. formalities for all the workmen engaged for this work andkeepOPGCindemnified.

EndofSection-VII

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8.0 LABOURLAWS

8.1 LABOURLAWS:

Contractor shall comply with all laws, ordinances, regulations and notification / instruction ofGovt.concerningthehealth,wages,welfare,safetyandemploymentandnon-employmentof hisworkersandshallexclusivelybeartheconsequencesoffailuretocomplytherewith.

The following points are to be observed strictly by the Contractor.

- i) Nolabourbelowtheageof18(eighteen)yearsshallbeemployedonthework.
- ii) TheContractorshallnotpaylessthanthenotifiedwagesbytheappropriategovernment towards minimum wages from time to time and must comply withMinimumWagesAct.Thepaymenthastobemadetothelaboursinthepresenceofau thorizedrepresentativeoftheOwner/Engineer-in-charge.
- iii) TheContractorshallathisexpensecomplywithalllabour lawsandkeeptheOwnerindemnifiedinrespectthereof.
- iv) The Contractor shall pay equal wages for men & women in accordance with EqualRemunerationAct1976.
- v) The Contractor under the Contract Labour (Regulation and Abolition) Act, shall have avalidLabourlicensefromappropriatelicensingauthoritypriortostarting/within15days ofcommencementoftheworkundertheContract.Validityofthelicenseshallbemaintain edtillexpiryofContractperiod&itsextension,ifany.
- vi) The Contractor shall employ labour in sufficient numbers to maintain the schedule ofwork and of quality to ensure workmanship of the degree specified in the ContractandtothesatisfactionoftheEngineer-in-charge.
- vii) TheContractorshallfurnishtotheEngineer-in-chargeattheintervalofevery15daysastatem entoftheworkmenemployedontheworksandalsofurnishinformationinForm-VIII, Part I & II under rule 73 of Odisha Contract Labour (R&A) Rule, 1975 or rulesmadethereunder.
- vii)The Contractor shall comply with the provisions of the Factories Act 1948, Payment ofWages Act 1936, Minimum Wages Act 1948, Employees Liability Act 1938, Workmen'sCompensationAct1923,theMaternityBenefitAct1961,EmployeesProvide ntFund(and Miscellaneous Provision) Act 1952 & Contract Labour (Regulation & Abolition)Act 1970 or any modifications thereof or any other laws relating thereto and rulesmade there-under from time to time. Owner shall not be held responsible for anyinjurysustainedbyContractor'sworkmenwhileonduty.

In the event of any employment injury the Contractor has to pay necessarycompensation pertaining to treatment & other associated benefits to the injuredemployee. In the event of fatal injury, death compensation to the legal heir of

saidemployeeshallbepaidbytheContractor.IncaseoffailurebytheContractortopaythe compensation as decided by the competent authority under the Workmen'sCompensation Act, the Engineer-in-charge shall deduct the necessary amount

fromanyoutstandingbilloftheContractororsecurityanddepositthesamewithcompete nt authority. In case before decision by the competent authority, if theContract is being closed, estimated amount towards such compensation shall beretained from Contractor till finalization. For this purpose, the amount if falls shortunder the particular Contract shall be realized from any other Contract which the Contractoris executing. The Contractor has to make all statutory records and register

required in support of compliance of above provisions. Relevant statutory return shallbe submitted with appropriate authority as required under the above Acts & ruleswith a copy to P&A department of Owner. All the records shall be kept within the workpremises and must be made available on demand by Owner/Concerned statutoryauthorityforscrutiny.

- ix) The Contractor shall indemnify the Owner against any payments to be made underand for the observance of the provisions of the aforesaid Acts without prejudice to hisrightstoclaimindemnityfromhissubcontractor, if any.
- x) The Contractor has to make payment to their staff and labours by 7th day of succeedingmonth irrespective of release of Contractor's payment by Owner. In case of anydefault in the matter of payment to the labour, the following penalty apart from legalliabilityshallbeimposedandrecoveredfromContractor'srunningbills.
- (a) 0.1% of Contract value will be deducted for each day of delay of wages disbursement after 7 th day of last wage period subject to maximum 1% of Contract value.
- (b) Repetition of three such cases may attract immediate termination of Contract withoutanyfurtherreferencetoContractoraspertermsofContract.
- (xi)OwnershallnottakeresponsibilityofContractor'slabourseitherduringexecutionofContract oronclosureofContractorterminationofContract.
- xii)However, in the event of default of any Contractor in payment to their labours formorethanonemonthfromthedateofpaymentandiftheserviceisessentialfortheOw nerandtheContractcannotimmediatelybeterminated,theEngineer-in-chargeshallma kethepaymenttotheworkmenandrecoverthesameamountfromanydueof the Contractor. Under such circumstances the Contract shall be liable for immediateterminationasdeemedfitbytheOwner.
- (xiii) The Contractor shall ensure that all the employees engaged by the Contractorincluding his subcontractor, if any, obtain health certificate from any competentmedical practitioner under the provisions of Factories Act without any financialimplicationtoOwner.
- (xiv) Every worker who has worked under the Contractor shall be allowed leave with wages,national & festival holidays, weekly off and extra wages or overtime as per law. TheContractor should provide employment card, wage slip and should maintain suchother records in respect of engagement of workersas required by Contract Labour(R&A) Act 1970 and rules made there under. This provision must be ensured by theContractor.

8.2 CONTRACTORTOINDEMNIFYTHEOWNER:

8.2.1 The Contractor shall indemnify the Owner and every officer and employee of the Ownerincludingthe

Engineer-in-chargeandhisstaffagainstallactions, proceedings, claims, demands costs and expenses whatsoever arising out of or in connection with the mattersreferred to in Clause 8.1 and elsewhere which may be made against the Owner for or inrespect of or arising out of any act / omission by the Contractor in the performance of hisobligations under the Contract. The Owner shall not be liable for or in respect of any demandor compensation payable by law in respect or in consequence of any accident or injury to anyworkmen or other person in the employment of the Contractor or his subcontractor andContractor shall indemnify and keep indemnified the Owner against all such damage, compensation and against all claims, damages, proceedings, charges costs, and expenses what so everthere of or inrelation thereto.

8.2.2 PaymentofClaimsandDamages:

Should the Owner have to pay any money in respect of such claims or demands as a foresaid the am ounts opaid and the cost incurred by the Owner shall be charged to and paid by the Contractor and the Contractor shall not be at liberty to dispute or question the right of the Owner to make such payments not with standing the same may have been made without his consent or authority or in law or otherwise to the contrary.

8.2.3 The Contractor shall intimate to the Workman Compensation Commissioner in Form EE-Iwithin prescribed period the employment accident with relevant information with copy to theOwner. The Contractor shall take all legal steps for compliance of the provisions of WorkmanCompensationActrelatingtoaccidentfailingwhichOwnerundercircumstanceshalltak eupthe case for which all costs and expenses shall be recovered from the Contractor and the saidContractshallbeliabletobeterminated&theContractorliabletobedebarredfromfuturepar ticipationinbid.Incasetheamountcannotberecoveredfromdues/security/duesofothercontra ctswithOwner, thesameshallberecoveredasdebtliability.

8.3 HEALTHANDSANITARYARRANGEMENTSFORWORKERS:

InrespectofallaboursdirectlyorindirectlyemployedintheworksfortheperformanceofContrac t, the Contractor shall comply with or cause to be complied with all the rules and regulations of the locals and the rauthorities or as framed by the Owner from time to time for the protection of health and sanitary arrangements for all workers.

*8.4 MODELRULESFORLABOURWELFARE

- 8.4.1 FirstAid:
 - a) Ateveryworkplacewherethenumberofworkmenengagedexceeds50,thereshallbe maintained in a readily accessible place first aid box containing the followingequipments:
 - (i) 12smallsterilizeddressings
 - (ii) 6mediumsizesterilizeddressings
 - (iii) 6largesizesterilizeddressings
 - (iv) 6largesizesterilizedburndressings
 - (v) 6(15gms.)packetsterilizedcottonwool
 - (vi) 1(60ml.)bottlecontainingatwopercentalcoholicsolutionofiodine
 - (vii) 1(60ml.)bottlecontainingsal-volatilehavingthedoseandmodeofadministr ationindicatedonthelabel.
 - (viii) 1roleofadhesiveplaster
 - (ix) Asnake-bitelancet
 - (x) 1(30gms)bottleofpotassiumpermanganatecrystals
 - (xi) 1pairscissors
 - (xii) 1copyofthefirstaidleafletissuedbytheDirectorGeneral,FactoryAdviceService andLabourInstitute,GovernmentofIndia
 - (xiii) Abottlecontaining100tablets(eachof5grains)ofaspirin
 - (xiv) Ointmentforburns
 - (xv) Abottleofasuitablesurgicalanti-septicsolution.
 - b) At every workplace where the number of workmen engaged does not exceed 50, thereshallbemaintainedinareadilyaccessibleplacefirstaidboxcontainingthefollowing equipments:

- (i) 6smallsterilizeddressings
- (ii) 3mediumsizesterilizeddressings
- (iii) 3largesizesterilizeddressings
- (iv) 1(30ml.)bottlecontainingatwopercentalcoholicsolutionofiodine
- (v) 3largesterilizedburndressings
- (vi) 1(30ml.)bottlecontainingsal-volatilehavingthedoseandmodeofadministr ationindicatedonthelabel.
- (vii) 1snake-bitelancet
- (viii) 1(30gms.)bottleofpotassiumpermanganatecrystals
- (ix) 1pairscissors
- (x) 1copyofthefirstaidleafletissuedbytheDirectorGeneralFactoryAdviseServic eandLabourInstitute,GovernmentofIndia
- (xi) Abottlecontaining100tablets(eachof5grains)ofaspirin
- (xii) Ointmentforburns
- (xiii) Abottleofsuitablesurgicalanti-septicsolution.

The appliances shall be kept in good order and they shall be placed under the charge of aresponsiblepersonwhoshallbereadilyavailableduringworkinghours.Suitabletransport/con veyancefacilityshallbekeptreadilyavailabletotakeinjuredperson(s)whosuddenlyfallseriously ill and shifting of urgent cases to nearest hospital. If required, initial first aid may beprovided in Owner's hospital in emergency, but subsequent treatment is Contractor'sresponsibilityinanyotherhospital.

- 8.4.2 AccommodationforLabour:TheContractorshallduringtheprogressoftheworksprovide, erect and maintain necessary temporary living accommodation and ancillary facilities forlabourathisownexpenseanduptothestandardsasapproved by the Engineer-in-Charge at a place outside the Owner's premises.
- 8.4.3 *Drinking Water:* In every workplace, there shall be provided and maintained at suitablelocations, easily accessible to labour, a sufficient supply of coldwater fit for drinking.

Where drinking water is obtained from public water supply, each work place shall be provided with storage where drinking water shall be stored.

Everywatersupplystorageshallbeatadistanceofnotlessthan15metersfromanylatrine,drainor othersourceofpollution.Wherewaterhastobedrawnfromanexistingwell,whichis within such proximity of latrine, drain or any other source of pollution, the well shall beproperly chlorinated before water is drawn from it for drinking.All such wells shall be entirelyclosedinandbeprovidedwithatrapdoor,whichshallbedustandwaterproof.

A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once amonth.

 $Washing and Bathing Places: {\it A dequate washing and bathing places shall be provided separately for rmen and women. Such places shall be kepting lean and drained condition.}$

StandardnumberofLatrinesandurinals: Thereshallbeprovided within the precincts of every work place elatrines and urinals in an accessible place and in the following scales:-

a) Where females are employed, the reshall be at least one latrine/urinal for every 25 female s.

b) Wheremalesareemployed, the reshall be at least one latrine/urinal for every 25 males.

Provided that where the no. of males employed exceeds 100, it shall be sufficient if there is one latrine for every 25 males up to first 100 and one for every 50 thereafter.

In calculating the no. of latrines required, any odd no. of workers less than 25 or 50, as thecasemaybe, shallbereckoned as 25 or 50.

Other specifications shall comply to the Odisha Factories Rules - 1950.

Latrines and urinals: Except in workplaces provided with water flushed latrines connected with a water-borne sewage system, all latrines shall be provided with receptacles on dry earthsystem which shall be cleaned at least four times daily and at least twice during working hoursand kept in a strictly hygienic condition. Receptacles shall be tarred inside and outside at leastonceayear.

If women are employed, separate latrine and urinals, partitioned from those for men andlabeled with bold letters in both Oriya & Hindi, such as "For Men" or "Women" shall beprovided.A poster showing the figure of a man and of a woman shall also be exhibited at theentrance to latrines for each sex. There shall be adequate supply of water close to latrinesandurinals.

- 8.4.4 *Construction of latrines:* Inside walls shall be constructed of masonry or other non-absorbentmaterial and shall be cement-washed inside and outside at least once a year. The dates ofcement washing shall be noted in a register maintained for the purpose and kept available for inspection. Latrineshall have at least that chedroof.
- 8.4.5 *DisposalofExcreta*:Unlessotherwisearrangedforbythelocalsanitaryauthority,arrangement for proper disposal of excreta by incineration at the workplace shall be made bytheContractor.Alternativelyexcretamaybedisposedoffbyputtingalayerofnightsoilsatthe bottom of pucca tank prepared for the purpose and covering it with a 15 cm layer of wasteor refuse and then covering it with a layer of earth for a fortnight (when it will turn intomanure).

The Contractor shall, at his own expense, carry out all instructions issued to him by theEngineer-in-Charge to effect proper disposal of soil and other conservancy work in respect ofContractor's workmen or employees on the site.The Contractor shall be responsible forpayment of any charges, which may be levied by municipal authority for execution of suchworkonhisbehalf.

- 8.4.6 *Provisionofsheltersduringrest:*Ateveryworkplacethereshallbeprovidedfreeofcostfoursuitabl esheds,twoformealsandtwoothersforrest,separatelyforuseofmenandwomenLabour.Heigh t of each shelter shall not be less than 12' from floor-level to lowest part ofroofs. Sheds shall be kept clean and the space provided shall be on the basis of at least 12sq.ft.perhead.
- 8.4.7 *Crèches*:Ataplaceatwhich30ormorewomenworkersareordinarilyemployed,thereshallbepro videdatleastoneroomforuseofchildrenundertheageof6yearsbelongingtosuchwomen. Rooms shall not be constructed to a standard lower than that of waterproof roof,smooth & impervious floor and wall with heat resistant materials / wooden planks. Roomsshall be provided with suitable and sufficient openings for light and ventilation. There shall beadequate provision of sweepers to keep the places clean.There shall be two Dhais inattendance.Sanitary utensils shall be provided to the satisfaction of local medical, health andmunicipal authorities.Use of huts shall be restricted to children, their attendants andmothersofchildren.

 $Where the number of women workers is more than 30 or more, the {\tt Contractors hall provide at least} on ehut and one {\tt Dhaitolook} after child renof women workers.$

Sizeofcreche(s)shallvaryaccordingtothewomenworkersemployed.

Creche (s) shall be properly maintained and necessary equipment like toys etc.

provided. All other provisions shall comply to Odisha Factories Rules-1950.

- 8.4.8 *Canteen*:A cooked food canteen on a moderate scale shall be provided for the benefit ofworkerswherever100ormoreContractor Labourareordinarily employedandworkcontinuesfor6monthsormore.
- 8.4.9 Planning, setting and erection of the above mentioned structures shall be approved by theEngineer-in-Charge, and the whole of such temporary accommodation shall at all times duringthe progress of the works be kept tidy and in a clean and hygienic condition to the satisfaction of the Engineer-in-Charge at the Contractor's expense. The Contractor shall conform generallyto sanitary requirements of local medical, health and municipal authorities and at all timesadoptsuchprecautionsasmaybenecessarytopreventsoil,water&airpollutionofthesite.

Oncompletion of the works the whole of such temporary structures shall be cleaned away, all rubb is hournt, excreta or other disposal pits or trenches filled in an deffectively sealed of fand the whole of siteleft clean and tidy to the entires at is faction of the Engineer-in-Charge at the Contractor's expenses.

- 8.4.10 Anti-malaria precautions: The Contractor shall at his own expense conform to all anti-malariainstructions given to him by the Engineer-in-Charge, including filling up any borrow pits whichmayhavebeendugbyhim.
- 8.4.11 *Enforcement:* The Inspecting Officer mentioned in the Contractors Labour Regulations atClause8.5.1(d)oranyotherofficernominatedinhisbehalfby theEngineer-in-ChargeshallreporttotheOwnerallcasesoffailureonthepartoftheContractoror hissubcontractorstocomplywiththeprovisionoftheseruleseitherwhollyorinpartandtheEngin eer-in-Chargeshallimposesuchfinesandotherpenaltiesasareprescribedintheconditions.
- 8.4.12 *Interpretations etc:* On any question as to the application, interpretation of effect of theserules, the decision of the Chief Inspector of Factories & Boiler, Labour Commissioner andProvident Fund Commissioner as the case may be shall be final and binding. Over & above thesaid provision, any court pronouncement having territorial jurisdiction shall be binding onbothpartiesasthecasemaybe.
- 8.4.13 Amendments:Governmentmay,fromtimetotimeaddtooramendLabourLawsandrulesthereto and issue such directions as it may consider necessary for the proper implementation of these laws & rules or for the purpose of removing any difficulty which may arise in theadministrationthereof.

8.5 CONTRACTLABOURREGULATION

- 8.5.1 *Definition:* In these regulations, unless otherwise expressed or indicated, the following wordsandexpressionshallhavethemeaningherebyassignedtothem:
 - (a) "InspectingOfficer" means any officer as mentioned below corresponding to different depart ments:

<u>Govt.Deptt.</u>

Designation

Labour:

RuralLabourInspectortoLabourCommissioner

- ii) Factory:InspectorofFactories&BoilerstoChiefInspectorofFactories&Boilers.
- iii) ProvidentFund:ProvidentFundInspectortoProvidentFundCommissioner
- iv) Anyotherpersonofabove

i)

departments duly authorized by competent authority.

Owner'sInspectingOfficermeansofficersasmentionedbelow:

- i) PlantManager
- ii) Engineer-in-charge
- iii) GeneralManager(P&A)orhisauthorizedrepresentative
- iv) Safety/FireOfficer

8.5.2 Submissionofinformationbeforecommencementofwork:

Contractor shall, before commencement of the work, furnishin writing to the Engineer-in-charge of the area concerned the following information:

- (a) Nameandaddressofsubcontractorsasandwhentheyareengaged.
- (b) DateofCommencementofthework.
- (c) Numberofworkersemployedandlikelytobeemployed.
- (d) Wagesfordifferentcategoriesofworkers.

8.5.3(i) Number of hours of work which shall constitute a normal working day:-

Thenumberofhours, which shall constitute anormal working day for an adult, shall be eighthours including ½ hr. rest after five hours of work. The working day of an adult worker can be soarranged that inclusive of intervals, if any, for rest it shall not spread overmore than ten/twelv e hours on any day with prior approval of competent authority. If an adult worker is made to work more than nine hours on any day or for more than forty eight hours in any weekheshall, in respector fover time work, be paidwages at double the ordinary rate of wages.

- (ii)Weeklyrest:Everyworkershallbegivenaweeklydayofrestwhichshallbefixedandnotifiedina dvance.Aworkershallnotberequiredorallowedtoworkontheweeklyrest day unless he has or will have a substituted rest day, on one of the three daysimmediately before or after the rest day provided that no worker shall work for morethantenconsecutivedayswithoutafullrestday.
- 8.5.4 *Display of notice regarding Wages, Weekly Day of Rest etc.:* The Contractor shall before hecommenceshisworkunderContract, displayandcorrectlymaintainandcontinuetodisplayan dcorrectlymaintainincleanandlegibleconditioninconspicuousplacesatsite, noticeinEnglish, Oriya & Hindi giving the rate of minimum wages, the hours of work for which suchwages are payable, the weekly rest days workers are entitled to and name and address of theInspectingOfficers.
- 8.5.5 *Fixation of Wage Periods:* The Contractor shall fix wage periods in respect of which wagesshallbepayable.Nowageperiodshallexceedonemonth.
- 8.5.6 PaymentofWages:
 - (i) Wagesduetoeveryworkershallbepaidtohimdirectortohisauthorizedperson.Allwagess hallbepaidincurrentcoinsorcurrencyorinboth.
 - (ii) Wages of every worker engaged under the Contract shall be paid where the wageperiodisoneweek,withinTHREEdaysfromtheendoftheWageperiod;andinanyoth er case before the expiry of the 7th day or 10th day from the end of the wage periodaccordingasthenumberofworkersdoesnotexceed1,000orexceeds1,000.

- (iii) When employment of any worker is terminated by or on behalf of the Contractor, theduesofsuchworkershallbepaidwithimmediateeffect.
- (iv) Paymentofwagesshallbemadeattheworksiteonaworkingdayexceptwhentheworkisc ompetedbeforeexpiryofthewageperiod,inwhichcasefinalpaymentshallbemadeatthe worksitewithin48hoursofthelastworkingdayandduringnormaltime.
- 8.5.7 *Register of Workman:* A register of workmen shall be maintained in the Form appended inAnnexure-Xandtherelevantparticularsofeveryworkmanshallbeenteredthereinimmediatel yonhisemploymentandkeptattheworksite.
- 8.5.8 *EmploymentCard:*TheContractorshallissueanemploymentcardintheFormappendedinAnnex ure-XI to each worker on the day of work or entry into his employment. On terminationof employment the Employment Card shall be retained by the Contractor and a servicecertificateshallbeissuedinFormX.
- 8.5.9 RegisterofWagesetc:
 - (i) ARegisterofWages-cum-MusterRollintheFormappendedinAnnexure-XIIshallbemain tainedandkeptattheworksiteorasneartoitaspossible.
 - (ii) A wage slip in the Form appended in Annexure-XV shall be issued to every workeremployedbytheContractoratleastadaypriortodisbursementofwages.
- 8.5.10 Deductions, which may be made from Wages:
 - (i) Wages of a worker shall be paid to him without any deductions of any kind except thefollowing:
 - (a) fines
 - (b) deductions for absence from duty. The amount of deduction shall be inproportiontotheperiodforwhichhewasabsent.
 - (c) deduction for damage to or loss of goods expressly entrusted to the employedperson for custody, or for loss of money which he is required to account
 - for, where such damage or loss is directly attributable to his neglector default.
 - (d) Rentofhouseaccommodation/amenities
 - (e) Deductions for recovery of advances or for adjustment of overpayment ofwages.Advancegrantedshallbeenteredinaregister;and
 - (f) Anyotherdeduction,whichtheOwnermayfromtimetotimeallow.
 - (ii) Nofinesshallbeimposedonanyworkerinrespectofsuchactsandomissionsonhispartash avebeenapprovedbytheCompetentauthorityasinClause8.5.1.
 - (iii) Nofineshallbeimposedonaworkerandnodeductionsfordamageorlossshallbemade from his wages until the worker has been given an opportunity of showing causeagainstsuchfinesordeduction.
 - (iv) Thetotalamountoffineswhichmaybeimposedinanyonewageperiodonaworkershallno texceedanamountequalto3%ofwagesinrespectofthatwageperiod.
 - (v) No fine imposed on a worker shall be recovered from him in installments, or afterexpiry of sixty days from the date on which it was imposed. Every fine shall be deemedto have been imposed on the day of the act or omission in respect of which it wasimposed.
 - (vi) TheContractorshallmaintaininEnglish,Hindi&OriyaalistapprovedbytheLabourCommi ssioner, clearly stating the acts and omissions for which penalty or fine may beimposed on a workman and display it in good condition in a conspicuous place on theworksite.
 - (vii) The Contractor shall maintain a register of fines and the register of deductions fordamage or loss in the Forms appended in Annexure-XIII & XIV respectively, whichshouldbekeptattheplaceofwork.

- 8.5.11 *Register of Accidents:* The Contractor shall maintain a register of accidents in Form 26prescribed under Rule 105 of Odisha Factory Rules, 1950 but the same shall include thefollowingparticulars:-
 - (a) Fullparticularsofthelabourswhometwithaccident
 - (b) RateofWages
 - (c) Sex
 - (d) Age
 - (e) Natureofaccidentandcauseofaccident
 - (f) Timeanddateofaccident
 - (g) Dateandtimewhenadmittedinhospital
 - (h) Dateofdischargefromthehospital
 - (i) Periodoftreatmentandresultoftreatment
 - (j) PercentagelossofearningcapacityanddisabilityasassessedbyMedicalOfficer.
 - (k) ClaimrequiredtobepaidunderWorkmen'sCompensationAct.
 - (I) Dateofpaymentofcompensation
 - (m) Amountpaidwithdetailsofthepersontowhomthesamewaspaid
 - (n) Authoritybywhomthecompensationwasassessed
 - (o) Remarks
- 8.5.12 *PreservationofRegisters:*TheRegisterofworkmenandtheRegisterofWages-cum-MusterRollr equiredtobemaintainedundertheseRegulationsshallbepreservedfor3yearsafterthedateon whichthelastentryismadethereinFormIX.
- 8.5.13 *Enforcement:* The Inspecting Officer shall either of his own or on a complaint received by himcarryoutinvestigations, and sendare portto the Engineer-In-charge specifying the amountsr epresenting worker's dues and amount of penalty to be imposed on the Contractor forbreach of these Regulations, that have to be recovered from the Contractor, indicating full details of the recoveries proposed and the reasons therefore. It shall be obligatory on the part of the Engineer-in-charge on receipt of such a report to deduct such amounts from payments due to the Contractor.
- 8.5.14 Disposal of amounts recovered from the Contractor: The Engineer-in-charge shall arrangepayment to workers concerned at the earliest from receipt of a report from the InspectingOfficer except in case where the Contractor had made an appeal under Clause 8.5.15. In casewhere there is an appeal, payment of workers dues would be arranged by the Engineer-in-charge, wherever such payments arise, within THIRTY days from the date of receipt of thedecisionoftheauthorityspecifiedinClause8.5.1
- 8.5.15 Appeal against decision of Inspecting Officer: Any person aggrieved by a decision of theInspecting Officer may appeal against such decision before the higher authority concernedwithin THIRTY days from the date of the decision, forwarding simultaneously a copy of hisappealtotheEngineer-in-charge.

Inspection of Books and other Documents: The Contractor shall allow inspection of theRegisters and other documents prescribed under these Regulations by Inspecting Officers and theEngineer-in-charge/Owner/Owner'srepresentativeatanytimeonreceiptofduenotice ataconvenienttime.

Interpretation, etc.: On any question as to the application, interpretation or effect of theseRegulationsthedecisionoftheOwnerorhisrepresentativeshallbefinal&binding.

Amendments: Governmentmay, from time to time, add to or a mendLabour laws and issues uch di rections if considered necessary for the proper implementation of Labour laws or for removing an y difficulty, which may arise in the administration thereof.

Form-12

REGISTERSTOBEMAINTAINEDBYTHECONTRACTOR: FactoryAct1948: 1. RegisterofAdultworkers : Registerofleavewithwages: Form-15 2. 3. RegisterofAccident Form-26 : 4. Registerofovertime Form-10 : Registerofhealth Form-31 5. : 6. RegisterforissueofPPEs 7. Registerforcompensatoryholiday:Form-9 8. MusterRollwithWagesRegister ContractLabour(R&A)Act1970 MusterRoll Form-XII 9. : 10. Employmentcards Form-X : 11. RegisterofContractWork : (FormVII)Part-II PaymentofWagesAct-1936 RegisterofFines Form-XVII 12. : RegisterofDeduction Form-XIV 13. : 14. RegisterofAdvance : Form-XVIII MinimumwagesAct Form-XV 15. Wageslip : PaymentofBonusAct 16. ConsolidatedRegister PFAct 17. ContributionRegister InspectionRegister 18. EqualRemunerationAct1976 Form'D'Register 19. MiscellaneousRegister

20. RegisterforissueofPPEs

EndofSection-VIII

SECTION-IX

9.0 SAFETYPROVISIONS:

9.1 GENERAL:

It is the objective of OPGC to maintain excellence in safety & loss control performance byContractors at all locations of ITPS. The Owner will provide the environment, encouragementand support to achieve this objective but is the Contractor's responsibility to establish,maintain,andmanageitsownsafety&losspreventionprogramme.

Contractor shall adhere to safe work practice and guard against hazardous and unsafeworkingconditionandshallcomplywithOwner'ssafetyrulesassetoutherein.Priortostar tof work, Contractor will be provided copies of Owners Health &Safety Manual for informationandguidance.

The contactor is expected to exert primary control through their line supervision to obtaindesired performance. Repeated poor safety performance shall lead to termination of ContractandshallbedebarredfromfutureparticipationinContractforoneyear.

9.2 RESPONSIBILITY OF CONTRACTORINRESPECTOFS AFETY:

- 9.2.1 Inrespectofalllabours, directly or indirectly employed in the workfortheperformance of Contrac t, the Contractor shall at his own expense comply all the safety provisions as per (i) Bureau of Indian Standards, (ii) The Electricity Act & Rules, (iii) Regulations adopted by Ownerand other ordersmade the reunder and other acts as applicable.
- 9.2.2 The Contractor shall observe and abide by all fire/safety regulations of the Owner. Beforestarting of work, Contractor shall consult Engineer-in-charge and ensure that any loss ordamage due to fire to any portion of the work under this Contract due to his fault shall bemadegoodbytheContractorathiscost.
- 9.2.3 Before entry into the plant premises, all the Contractor labours shall be imparted safetytrainingbyOwner'sSafetyOfficer/FireOfficerafterwhichgatepassshallbeissued.
- 9.2.4 TheContractorshallensurethatnecessaryskillinrespectofvariousjobsisacquiredbywayof working & certificate to that effect is available, e.g. for riggers, fitter & other such workmen.Operators/driversofvariousvehiclesmusthavevalidlicensefromcompetentauthorit y.

9.3 SAFETYRULESOFOWNER:

- 9.3.1 The Contractor has to strictly abide by the Safety rules & regulations enforced by Owner fromtime to time. The Contractor shall provide proper Identity Card to their employees, whichshall be produced for verification on demand at security gate & in working areas. All theContractorworkershavetobeprovidedwithpersonalprotectiveequipmentaspertheBISHdu ly certified by Owner's Safety Officer. The Contractor has to make provision of standardPPEs as laid down in Clause 9.13 and get it approved from Owner's Safety Officer beforecommencement of the work, failing which the Contractor & their workmen shall not beallowedtoenterintotheplant/worksite.
- 9.3.2 Any Contract labour who shall be detected inside the plant without use of any of the PPEsshall not be allowed to continue in duty. On first occasion, he shall be sent back with warningandonsecondoccasion, he shall be sent back & shall be debarred from duty for 3 to 5 days without pay. Repetition of the same shall constrain the management to advise the Contractor to remove such person from his employment under this Contract.
- 9.3.4 The Contractor workmen are restricted to go to any other department / work place Page **103** of **206**

 $during duty without permission of {\sf Engineer-in-charge}.$

- 9.3.5 Any Contractor workman detected on duty in drunken condition shall not be allowed tocontinueattheOwner'ssite.
- 9.3.6Facemask&apron/flashsuitofapprovedstandardaretobeprovidedbytheContractortoelectrical workmenasandwhenrequired.

9.4 COMPENSATION:

For any accident of Contractor work men while on work the Contractor shall pay compensation to their work men, supervisor as per Factory/Labour Act. Owners hall not be liable for any such compensation.

9.5 SAFETYINOPERATION/MAINTENANCE:

- 9.5.1 Contractorshallhavetoundertakeanyjobas&whenrequiredatmutuallyagreedtimewiththecon cernedEngineer-in-chargeandwithproperworkpermit(PTW)forsafetyconsideration&uninter ruptedrunningoftheplant.
- 9.5.2 Noworkmancanbeengagedinovertimeduringnighthours&onholidayswithoutspecificapprov alofEngineer-in-charge.

9.6 FIRSTAIDANDINDUSTRIALINJURIES:

- i) Contractor shall maintain first aid facilities for his employees and those of hissubcontractorsinadditiontothefacilityprovidedbytheOwner.
- ii) Contractor shall make outsidearrangements for ambulance service for the treatmentof industrial injuries. Names of those providing these services shall be furnished toOwner prior to start of work, and their telephone numbers shall be prominentlypostedinContractor'sfieldoffice.
- iii) AllnecessarypersonalprotectiveequipmentsasconsideredadequatebytheEngineer-in -charge / Safety Officer shall be kept available for the use of personsemployedatthesiteandmaintainedingoodconditionsuitableforuse.Thestandard ofPersonalProtectiveEquipments(PPE'S)tobeprovidedbytheContractorstotheirempl oyeesshallbeasfurnishedunder'standard'ofPersonalProtectiveEquipmentsaslaiddo wninClauseNo.9.13
- iv) The Contractor shall report promptly to the Engineer-in-charge/his representative anyinjury, diseases, dangerous occurrence, nearmisses and shall cooperate with Enginee r-in-charge and the Safety Officer in investigation process to establish basic causes and recommend appropriate improvements in control and remedial measures.

9.7 NOSMOKINGAREA:

Smoking is strictly prohibited in plant premises in general & in the Battery Area, HydrogenArea,tankfarm,Diesel/petrolfillingstation&warehouseinparticular.Violatorsofthe "NoSmoking" rules shall be removed from employment immediately. Smoking is prohibited inpublicplace.

9.8 NOTICESTOBEDISPLAYED:

Inadditiontothedutiesimposedbystatutoryobligations, the Contractorshall notify on his work premises the following norms relating to safety, health and environment imposed by the Owner.

 Owner'sSafetyandHealthProcedures&rulesapplicabletoContractorworkmeninOwne r'spremises.

9.9 BARRICADE:

i) Contractorshallerectandmaintainbarricadesrequiredinconnectionwithhisworktogua rd,protect&preventaccidentsbyothers.:

Areastobeguarded

- a) Excavations
- b) Hoistingareas
- c) AreasconsideredhazardousbyeitherContractororOwner.
- d) Owner's existing property subject to damage by Contractor's operation.
- e) Railroad/unloadingspots.
- f) AnyotherplaceasdirectedbyEngineer-in-charge/Owner'sSafetyOfficer.
- ii) Contractor's employees and those of his subcontractors shall a bide by Owner's barricadi ng practice and the provisions there of.
- iii) Barricadesandhazardousareasadjacenttobutnotlocatedinnormalroutesoftravelshallbe markedbyredflasherlanternsatnights.

9.10 SCAFFOLDING:

i) Scaffolding shall be moved, erected and used adjacent to exposed high voltage lineonly in accordance with the Owner's Safety & Health Procedures and in compliancewith the requirements imposed by the Engineer-in-charge. All scaffold structures shallbear the scaffold identification serial number, the safe working load of its platform, the signature of Engineer-in-charge and a clear indication of the safe access period ofseven days. Incomplete scaffolds must bear a caution – "Scaffolding Incomplete" (bothinHindi&Oriya).

The Contractor shall maintain a register of all scaffolds erected, dates of erection andreports of inspection and certificate of fitness. No scaffolding new or modified shallbe used by any one unless it has been inspected by Owner's Safety Officer / competentpersonforsatisfactoryconditionbeforeuseandthereafterbeforeeverysubse quentseven days. If scaffolding members are provided by Owner, the Engineer-in-chargemustcertifythemembersofthescaffoldbeforeuse.

In case of any modification or alteration in scaffolding, the Contractor must display onthescaffoldsas"DONOTUSE" signuntilithas been inspected and accepted as a safe structure by Owner's Safety Officer.

None other than a skilled & experienced workman shall erect, alter, modify thescaffoldingundersupervisionofacompetentperson.

AnyContractorwishingtomakeuseofanerectedscaffoldmustensurethatpermission has been granted by the Engineer-in-charge / competent person for thepurposeandthatthestructureiscapableoftakingtheloadrequiredfortherelatedwor k. The Contractor must also confirm to the management instructions applicable toscaffoldworkcontrol.

For work at height, but for short duration, where provision of a full scaffold is notreasonablypracticable,safetyharnessmustbeusedasperdirectionofEngineer-in-ch arge.Walkingoverunguardedbeamatheightisstrictlyforbidden.

- ii) Suitable scaffoldings should be provided for workmen for all works that cannot safelybedonefromthegroundorfromsolidconstructionexceptsuchshortperiodworksa s can be done safely from ladders. When a ladder is used a Mazdoor shall be engagedforholdingtheladderandiftheladderisusedforcarryingmaterialsaswell,suitabl efootstepsandhandrailsshallbeprovidedontheladderandtheladdershallbegivenaninc linationnotsteeperthan1in4(1horizontaland4vertical).Nometallicladdershallbeallow edforuseinworkplace.
- iii) Scaffolding or staging on more than 3.25 meters above the ground or floor shall swingor suspend from an overhead support or erected with stationary support shall have aguard rail properly attached, bolted, braced and otherwise retarded at least one meterhigh above the floor or platform of such scaffolding or staging and extending alongwith the entire length of the outside and ends thereof with only such openings as maybe necessary for the delivery of materials. Such scaffolding or staging shall be sofastenedastopreventitfromswayingfromthebuildingorstructure.
- iv) Working platform, gangways and stairways should be so constructed that they shouldnot sag unduly or unequally and if the height of the platform or gangway or thestairway is more than 3.25 meters above ground level or floor level, they shall beclosely & rigidly constructed, should have adequate width and be suitably fastened asdescribedin(ii)above.
- v) Every opening in the floor of a building or in working platform should be provided withsuitable means to prevent the fall of persons or materials by providing suitable fencingorrailingwhoseminimumheightshallbe1.0meter.
- vi) Safe means of access shall be provided to all working platforms and other workingplaces. Every ladder shall be securely fixed. No portable single ladder shall be over 9.0meter in length. The length of rung between the side rails of ladder shall in no case

belessthan30cmforladderuptoandincluding3.0meterinlength.Forlongerladdersthis length shall be increased at least 15 mm for each additional meter of length.Uniform step spacing shall not exceed 30 cms. Adequate precautions shall be taken

toprevent danger from electrical power. No material son any of the sites of works hall be so stacked or placed as to cause danger or inconvenience to any person or public. The

Contractor shall also provide all necessary fencing and lights to protect theworkers and staff from accidents, and shall bear the expenses of defense of every suit, action or other proceedings of law that may be brought by any person for injurysustained owing to neglect of the above precautions and to pay any damages and costwhichmaybeawardedinanysuchsuitoractionorproceedingstoanysuchpersonor which may with the consent of the Contractor to compromise any claim by any suchperson.

9.11 EXCAVATIONANDTRENCHES:

All trenches 1.2 meters or more in depth shall at all times be provided with at least one ladderforeach50-meterlengthorfractionthereof.

Laddershallbeextendedfrombottomofthetrenchtoatleast1.0mtrabovethesurfaceofthe ground. The sides of the trenches, which are 1.5 meters or more in depth, shall be steppedback to give suitable slope, or securely held by timber bracing, so as to avoid the danger

ofsidestocollapse.Theexcavatedmaterialsshallnotbeplacedwithin1.5metersoftheedgeof the trench or half of the trench depth whichever is more. Cutting shall be done from top to bottom. Under no circumstances under mining or under cutting shall be done.

9.12 SAFETYMEASUREINDEMOLITONWORK:

- I) Before any demolition work is commenced and also during the process of the demolition work-
- a) All roads and open areas adjacent to the work site shall either be closed or suitablyprotected.
- b) Noelectriccableorapparatus, which is liable to be a source of danger, shall remain electric allycharged.
- c) Allpracticalstepsshallbetakentopreventdangertopersonsdeployedfromriskoffire or explosion or flooding. No floor, roof or other part of the building shall be sooverloadedwithdebrisormaterialsastorenderitunsafe.
- AllpersonalprotectiveequipmentsasconsiderednecessarybytheEngineer-in-charge /SafetyOfficershallbekeptavailablefortheuseofthepersonsemployedatthesiteand maintained in good condition suitable for use. The standard of PPEs to beprovided by the Contractors to their employees should correspond to Clause 9.13hereinafter.
- a) Workers employed on mixing asphaltic materials, cement and lime mortars/concreteshallbeprovidedwithprotectivefootwear,protectivegloves,dustmaska ndgoggles.
- b) Those engaged in white washing and mixing or stacking of cement bags or anymaterials, which are injurious to the eyess hall be provided with protective goggles & d ustmask.
- c) Those engaged in welding and gas cutting works shall be provided with protective faceandeye-shields/weldingmask,handgloves&leatherapronetc.
- d) Stonebreakers shall be provided with protective goggles, protective clothing, handgloves&dustmaskandseatedatsufficientlysafedistances.
- e) When workers are employed in sewers and manholes which are in use, the Contractorshallensurethatthemanholecoversareopenedandareventilatedatleastfor onehourbeforetheworkersareallowedtogetintothemanholes, and themanholessoop enedshall becord one doff with suitablerailing and provided with warning signals or board to prevent accident to the public. In addition, procedure to work in confined spaceshall bestrictly followed.
- f) The Contractor shall not employ men below the age of 18 years and women on theworkofpaintingtheproductscontainingleadinanyform.Nofemaleworkershallbeall owed to work without tight apron near rotating machines. Wherever men abovethe age of 18 years areemployed on the work oflead paintingthe followingprecautionsshallbetaken-
 - 1. No paint containing lead products shall be used except in the form of paste orreadymadepaint.
 - 2. Suitable facemasks should be supplied for use by the workers when paint is applied in the form of sprayorasurface having lead paint, dry rubbed and scrapped.
 - 3. All the required PPEs shall be provided by the Contractor to the workmen and adequate facilities shall be provided to enable the working painters to wash themoncessationofwork.
- III) When the work is subject to a risk of drowning all necessary safety equipmentssufficientPPEsincludinglifebuoy&ropeshallbekeptforuseandalInecessary stepsshall be taken for prompt rescue of any person in danger and adequate provision shallbemadeforpromptfirstaidtreatmentofallinjurieslikelytobesustainedduringtheco urseofwork.
- IV) Use of hoisting machines and tackles including their attachment anchorage and supports shall conform to the following standard or conditions and must comply thep Page 109 of 206

rovisionofFactoryAct.

- a) These shall be of good mechanical construction, sound materials and adequatestrengthandfreefrominherentdefectandshallbekeptingoodworkingorder.
- b) Everyropeusedinhoistingorloweringmaterialsorasmeansofsuspensionshallbeofdura blequalityandadequatestrengthandfreefrominherentdefects.
- c) Every crane driver or hoisting appliance operator shall be properly qualified and nopersonundertheageof21yearsshallbeinchargeofanyhoistingmachineincludingany scaffoldingorgivesignalstotheoperator.
- d) In case of every hoisting machine and of every chain ring hook, shackle swivel andpulleyblockusedinhoistingorloweringorasmeansofsuspension,thesafeworkinglo ad&dateoftestingshallbelabeledontheequipment.Everyhoistingmachineandall gear referred to above shall be marked with the safe working load and theconditions under which it is applicable shall be clearly indicated. No part of anymachineoranygearreferredtoshallbeloadedbeyondthesafeworkingloadexceptfor thepurposeoftesting.
- e) In case of department machines, the safe working load shall be displayed on theequipmentbytheEngineer-in-charge.AsregardsContractor'smachines,theContrac tor shall obtain necessary test certificate from competent authority and inform the Engineer-in-charge forverification, whenever hebrings any machinery tos ite of work. The safe working load and date of load testing & due date of testing shall be labeled on the equipment in both cases.
- f) Length of chain used for lifting shall not be adjusted by putting knot or slashing underanycircumstances.
- g) The lifting area including winch and other such equipment shall be isolated by suitablebarricadetoprevententryofotherpersons&animals.
- V) Motors, gears, transmission lines, electric wiring and other dangerous part of hoistingappliances shall be provided with efficient safeguards. Hoisting appliances shall beprovided with such means as to reduce to the minimum the accidental descent of

theload.Adequateprecautionshallbetakentoreducetotheminimumriskofanypartor parts of a suspended load becoming accidentally displaced. When workers areemployed on electrical installations, which are already energized, insulating mats,wearing apparel such as gloves, sleeves and boots as may be necessary should beprovided. The workers shall not wear any rings, watches and carry keys or othermaterials,whicharegoodconductorsofelectricity.

- VI) Allscaffolding, ladders and others a fety devices mentioned or described here inshall be maintained in safe conditions and no scaffoldings, ladder or equipment shall be altered or removed while it is in use. A dequate washing facilities shall be provided a torn earplaces of work.
- VII) Thesesafetyprovisionsshallbebroughttothenoticeofallconcernedbydisplayingon a notice board at a conspicuous place of worksite. The person responsible forcomplianceofthesafetycodeshallbenamedthereinbytheContractor.
- VIII)To ensure effective enforcement of the rules and regulations relating to safety, thearrangements made by the Contractor shall be open to inspection by the Engineer-in-charge / Safety Officer of Owner or authorized representatives and the InspectingOfficersasdefinedintheContractLabour(R&A)Act.
- IX) Notwithstanding the above clauses there is nothing to exempt the Contractor from the operations of any other Act or rules in force in the Republic of India. The worksthroughoutincludinganytemporaryworks,shallbecarriedoutinsuchamanneras

not to interfere in anyway what so ever with the traffic on any roads or foot paths at

the site or in vicinity thereto or any existing works whether the property of the Ownerorathirdpartyisaffected.

- X) EveryContractor'semployeeshallbeatalltimesunderthepropersupervisionwhenwork ing in Owner's premises or outside working site under Contract. Where aContractor / subcontractor himself works alone or with 2-3 persons and does not havespecificallydesignatedsupervisors,theContractorshallbetreatedassupervisorand ensuresafetyofself&hisworkmen.
- XI) TheContractormustensurethatallequipmentbroughttositeareingoodcondition, maint ained in good condition, complies with the requirements of the Factories Actand/oranyotherspecificlegislationandisusedorerectedsafely.MinimumstockofPP Es must be maintained by the Contractor in site store to meet all times need atwork.
- XII) Contractor workers engaged in areas involving coal dust must use dust mask inadditiontosafetyshoes, hardhats & safetyglasses.
- XIII) Contractor labour while working in heights or on utilities connected to movingequipmentsetc.mustusesafetybelts/fullbodyharnessasperrequirement.
- XIV) Contractor labours engaged in areas involving high noise such as crusher, grizzlefeeder, traveling tripper & paddle feeders, locomotives, ball mill, FD,ID& PA fans,compressors,DGset,turbinehalletc.mustuseearplug/earmuff.
- XV) Theuseofcompressedairforcleaningofclothingandskinisforbidden.
- XVI) No source of ionizing radiation shall be brought to Owner's premises without the priorpermissionoftheEngineer-in-charge.
- XVII) Ladders, long objects and cranes must not be used in the vicinity of exposed highvoltagepowerlinewithoutpermissionoftheEngineer-in-charge.
- XVIII) Allsitehuts, storage facilities, shelters and the likes hall be provided with fire extinguishers a ppropriate to the risk and with a dequate means of escape which shall be kept clear at all times.
- XIX) Gasfiresandradiantheatersareforbiddeninsitehuts.
- XX) TheContractormayonlyusehigh-pressurewaterwashing,on-linesealingandsteamclea ningapparatuswithpriorpermissionoftheEngineer-in-charge/hisrepresentative.

XXI) OverheadCrane:

- a) No work on overhead crane is permissible when persons are either working orotherwise available under the said work. Roadways must be barricaded when work iscarriedoutonroofshavingeaves(overhangingedgesofroof)paralleltoroadways.
- b) Allgirders, beams & overheads urfaces shall be kept free from nuts, bolts, tools and otherm aterials.

XXII) Electrical:

- a) Only authorized and qualified personnel shall work on the installations, wiring, troubleshootingorrepairofelectricalequipment.
- b) All electrical work including temporary wiring shall be done in accordance with the currentIndianElectricityRegulationsandwiththepermissionofconcerneddepartm entalelectricalengineers/competentauthority.
- c) NoladdersotherthanelectricallyinsulatedfiberladdershallbeusedbyworkmenoftheContractor.
- d) All electrical equipments provided by the Contractor and any temporary supplyinstallationsshallcomplywiththeprovisionsoftherelevantIndianElectricityRegulations.

- e) Portable tools, headlamps and other portable apparatus should be identified by aserial number, registered and periodically inspected & tested. All such equipmentsusedbytheContractorshallhaveacurrenttestcertificateofelectricalsafety.
- f) For tapping of power for temporary work, socket & adopter shall be used. Insertingwireinplugsocketshallbeliableforseverepenalty.

XXIII) Crane:

- a) Cranes & other heavy equipment must be guided into and out of the plant by a person(pilot)walkinginfrontofthevehicleataSAFEdistance.
- b) Nopersonshallrideonacraneball,cableorboometc.
- c) Areaswithinthesurroundingradiusoftherearoftherotatingsuperstructureoftheheavy crane shall be barricaded to prevent personnel from being struck or crushed bythecranewhileinoperationatoneplace.
- d) Craneboomsmustnotbeoperatedwithin3metersofliveelectricalwires.
- e) *Light of Crane:* Head light & back light must be used irrespective of movement orworkinginastaticcondition.

XXIV) Vehicles:

- a) Contractors shall not be permitted to use company mobile equipment such as cranes,tractors, and industrial trucks,machinery etc. unless specifically authorized in writingtodoso.
- b) Automobilesandothervehiclesshallbeparkedonlyindesignatedareas.
- c) Maximumspeedlimitsshallbeaspertheroadsignsinsidefactorypremises.
- d) Vehiclestravelingonplantroadsatnightmustuseheadlightsatlowbeam.Allloadsmustb esecurelyfastened.
- e) NoContractorlabourshallsitontheopentruckortractor/trailerbodyetc.
- f) Nobodyshouldenterorgetoutofanymovingvehiclesorequipments.
- g) Propercovershallbeprovidedforvehiclescarryingdust-emittingmaterials.

XXV) HotWorkPermit:

- a) ContractorshallcontacttheEngineer-in-chargeoftheworktoobtainaHWPbeforestarti nganyflamecutting,welding,grindingorotherhotwork.
- b) TheContractorshallprovideafirewatchifthehazarddictatestheneedforone.
- c) Allcompressedgascylindersmustbestoredinuprightpositionandproperlysecuredwith avalvecap.
- d) Ensure availability of approved extinguishers in good working order and properly filledbeforestartingthejob.
- e) Where cutting, burning or welding is to be done overhead, a person must be stationedbelow at a safe distance with an approved fire extinguisher. The area under overheadworkshallbebarricaded.
- f) Arc welding done at floor level must be shielded to protect personnel from weldingarea.
- g) Acetylene and oxygen welding / cutting must have approved back flow preventioncheckvalves(i.e.FlashBackArrestor).Cylindermustbeclosed/turnedoffafter use.
- h) Tarpaulins used shall be fire resistant. The placement & use of tarpaulins shall beunderstrictsupervision&controlofcompanypersonnel.
- i) Fire hydrants and hoses are not to be used without written permission of Engineer-in-chargeexcepttofightfires.
- j) NoLPGshallbeusedforanyindustrialpurpose.XX

VI)CompressedGasCylinder:

Page **114** of **206**

Compressed Gas Cylinder must be moved, stored or handled in an upright position.Transporting horizontally or by means of "barrel rolling" tactics is forbidden. Nocylinder shall be moved with the protective cap off or regulator attached except

when secure dinanapproved welding buggy. All cylinders whether charged or emptymust be secured in an upright and approved manner remote from possible damage.

XXVII) Confined spaces:

Nopersonshallenteraconfinedspace(tank,vault,pit,sewer,orenclosedstructurewith restricted means of space) until such entry permit is issued and signed by thedepartmentalEngineer-in-chargeoftheconfinedspaceworkarea.

XXVIII) General

Practices:Intoxica

nts:

- a) Possession of or drinking of alcoholic beverages is strictly prohibited on companypremises. Violators will be immediately removed and permanently prohibited fromenteringtheplant.
- b) Possessionofdrugsforotherthan medicalreasonsisforbiddenoncompanypremises.
- c) Contractorpersonnelmustnotenteranybuildingorareanotrequiredbytheirwork&won deringabouttheplantisprohibited.

XXIX) HouseKeeping:

a) Good House-Keeping practices are to be followed and the work placeskept clean and orderly. Re jects & scraps shall be deposited in properwast econtainers/place as the case may be.

At notimes hall any materials or equipment be placed so as to block the aisles & emergency exits fro mwork place.

XXX) MachineryGuarding:

 ${\it Machinery, tools and equipment smust not be operated without guards.}$

XXXII) FireProtection:

- a) Fire hydrants, extinguishers, hose racks and other emergency equipment shall not becoveredorblockedandfireequipmentlinesmustalwaysbekeptclear.
- b) All fire incidents must be reported to the Engineer-in-charge / Fire Officer / SafetyOfficerregardlessofdurationorextentandmeticulouslyinvestigated.

XXXIII) TemporaryBuilding:

Temporarybuilding and materials to rage are as shallonly be allowed on written approval of the Engineer-in-charge. They shall not be set up under power lines or over pipeways.

XXXIV) ClearanceProcedure:

Contractor must utilize the plant safety clearance procedure for performing work on processequipment, machines, and electrical equipment, as close supervisory coordination and controlareneededonthesejobs.

XXXV) PlantUtilities:

Plant air, water, gas, electricity, fuel etc are not to be used by the Contractor unless the sourceofsupplyhasbeendesignated and authorized by Engineer-in-charge.

9.13 MINIMUMQUALITYOFPERSONALPROTECTIVEEQUIPMENT:

Standard of personal protective equipments to be provided by the Contractors to theiremployeesareindicatedherebelow.

NAMEOFTHEITEMSWITHSPECIFICATION

1. IndustrialsafetyhelmetconformingIS:2925

2. SafetyshoesconformingIS:9473-1993

- 3. DustmaskconformingIS:9473-1983
- 4. SafetybeltconformingIS:3521-1983FullbodyHarnesswithfallarresttestedto22KNandabove.
- 5. Safetyglassesfordustprotection

 $\label{eq:lightweights} Lightweights a fety glasses with side shield to protect against wind \& ultravioletray with adjust a bleside arm sfor personalized fit.$

- 6.(i) EarmuffconformingIS:6229
 - (ii) EarplugorEarseal

7.

 $\label{eq:constraint} Unique closed cell polyester from smooth tapered surfaces imilar to ear canal, swells slowly to fit individual Ear canal.$

(Anyoneitemoutofthreetypesofearprotectiondeviceshouldbeissued)

- Flame-Water-Oil-Acids&alkaliresistantworkwear(madeof100%cottonfabric)
- 8. SafetyglovesofKevlarorequivalent(hightemp.resistance)
- 9. Faceshield(conformingIS:8521partItype-I)
- 10. Electricalhandgloves440v&33KVconformingIS:4770
- 11. HandglovesforchemicallaboratorymadefrompurelatexAcidandAlkaliproof
- 12. HandglovesforconcentratedchemicalsmadefromsuperiorPVCinsidecottonreinforceforbette rgrip
- 13. Splitchromeleatherhandglovesforhandlingroughobject.
- 14. Canvashandglovesforhandlingsmoothobject&doinglightworkwithit.
- 15. Flip up goggles with stationery frame fitted with ophthalmic grade zero power toughened lensand fitting frame. Blue lens for furnace.Green shade No.4 for gas cutting, dark greenNo.11forglassesforARCweldingwheneverisrequired.
- 16. Panoramic type safety goggles for acid & alkali whenever is required. Contractor shall ensureproperuseofpersonalprotectiveequipmentbytheirworkmenandsupervisoronduty.

Before issue of the above PPEs depending on the need of the area of work the sample of the same must be provided to Owner's Safety Officer for inspection & approval.

The Contractor shall be issued entry pass for their employees after due verification of thequalityofthestandardPPE'sandimpartingnecessarytrainingwellinadvance(i.e.before7day sofcommencementofwork)byEngineer-in-charge/SafetyOfficer.

- a) None of the Contractor's employees shall be allowed inside the plant premises without validgate pass, safety shoes, helmet (hard hat) & safety glasses.
- b) Contractor shall ensure that all his employees use proper PPE's inside the plantpremises aspert hework & site requirement.
- c) During the course of execution of the work the Contractor must ensure use of appropriate tested tools by their workmen. Safe working practice must strictly befollowed, e.g. use of proper plug & socket for electrical connections, right size &standardspanner, right capacity and tested lifting & pulling equipmentetc.
- d) TheContractormustensuretidinessoftheworkplaceduring&aftercompletionofthewo rk.
- e) Incaseofanydoubtrelatingtosafetyguidelines,theContractorshouldseekadviceofheE ngineer-in-charge/SafetyOfficerimmediatelyforclarification.

ANY DEFICNENCY IN SAFETY ASPECTS SHALL BE VIEWED SERIOUSLY BY THE OWNER. THECONTRACTORWILLBEPENALISEDUPTOTHEEXTENTOFRs.10,000/-(RUPEESTENTHOUSAN DONLY)PEREACHLAPSEASDETERMINEDBYTHEENGINEER-IN-CHARGE.OWNERRESERVES THE RIGHT TO TERMINATE THE CONTRACT AND DEBAR THE CONTRACTOR TOPARTICIPATE ANY FUTURE BIDDING IN CASE OF CONTINUED FLOUTING OF THE SAFETYNORMSPRESCRIBEDBYTHEOWNER.

9.14 CAREINHANDLINGINFLAMMABLEGAS:

The Contractor shall ensure all precautionary measures and exercise utmost care in handlingthe inflammable gas cylinder / inflammable liquids / paints etc as required under the lawand/orasadvisedbytheOwner'sFireOfficer.

9.15 TEMPORARYCOMBUSTIBLESTRUCTURE:

 ${\it Temporary combustible structures shall not be built near or around work site.}$

9.16 **PRECAUTIONAGAINSTFIRE:**

The Contractor shall ensure availability of appropriate fire Extinguishers / Fire Bunkers anddrums/firebucketsatworksiteasrecommendedbyEngineer-in-charge.

9.17 EXPLOSIVE:

Explosive shall not be stored or used in the works or at site by the Contractor without thepermissionoftheEngineer-in-chargeinwriting.Thestorage&usearealsorestrictedtotheext ent&inthemannertowhichsuchpermissionisgiven.Whenexplosivesarerequiredforthe works they shall be stored in a special magazine to be provided at the cost of theContractor in accordance with the Explosive Rules. The Contractor shall obtain necessarylicense for the storage and use of explosives and all operations in which or for whichexplosives are employed shall be at sole risk and responsibility of the Contractor and theContractor shall indemnify the Owner against any loss or damage resulting directly orindirectlytherefrom.

9.18 CONTRACTOR'SLIABILITY:

9.18.1 *Safety code:* The Contractor shall at his own expense arrange for the safety provisions asrequired by the Engineer-in-charge in respect of all labour directly employed for performance of the works and shall provide all facilities in connection herewith. In case the Contractor

fails to make a rrangements and provides necessary facilities as a foresaid, the Engineer-in-charges hall be entitled to do so and recover double the cost there of from the Contractor.

9.18.2 Failure to comply with safety code or the provision relating to and report on accidents and togrant of maternity benefits to female workers or submission of materially incorrect statmentshall make the Contractor liable to pay Liquidated damages an amount not exceeding Rs.500/-for each default. The decision of the Engineer-in-charge in such matters based on the reportsfromtheInspectingOfficerorfromrepresentativesofEngineer-in-chargeshallbefinalan dbinding and deductions for recovery of such liquidated damages may be made from anyamountpayabletotheContractor.

9.19 PRESERVATIONOFPEACE:

The Contractor shall take requisite precautions and use his best endeavor to prevent anyriotousorunlawfulbehaviorbyoramongsthisworkmenandotheremployedontheworksan dforthepreservationofpeaceandprotectionoftheinhabitantsandsecurityofpropertyinthenei ghborhoodofthework.IntheeventoftheOwnerrequiringthemaintenanceofaspecialpolicefor ceatorinthevicinityofthesiteduringthetenureofworks,theexpensesthereofshallbebornebyth eContractorandifpaidbytheOwnershallberecoverablefromtheContractor.

9.20 OUTBREAKOFINFECTIOUSDISEASES:

The Contractor shall remove from his camp such labour and their families who refuseprotective inoculation and vaccination when required to do so by the Engineer-in-charge.ShouldCholera,Plagueorotherinfectiousdiseasesbreakout,theContracto rshallburnthehuts,bedding,clothesandotherbelongingsoforusedbytheinfectedpartiesandpr omptlyerect new huts on healthy site as required by the Engineer-in-charge failing which within thetime specified in the Engineer's requisition, the said work may be done by the Owner and thecostthereofrecoveredfromtheContractor.

9.21 USEOFINTOXICANTS:

The sale of dent spirits or other intoxicating beverages upon the work in any of the buildings, encampments or tenements owned, occupied by or within the control of the Contractor or any of his employee is forbidden and the Contractor shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition.

In addition to the above, the Contractor shall a bide by all provisions of Owner's Safety Code frame d from time to time.

EndofSection-IX

SECTION-X

10.0 PENALTY:

10.1 FORNON-COMMENCEMENTOFWORKONDUEDATE:

The execution of work shall commence from 15th day after the date on which the Ownerissueswrittenorderstocommencethework.IftheContractorcommitsdefaultincomme ncingtheexecutionofworkasaforesaid,Ownershallwithoutprejudicetoanyotherright or remedy be at liberty to forfeit the earnest money absolutely. In addition, OwnerreservestherighttoterminatetheContractwithoutanyfurtherreferencetotheContractor.

10.2 FORNON-PERFORMANCE:

Incase the performance is discontinued by the Contractor without any cause attributable to Owner, the Contract can be terminated with three days notice at the discretion of Engineer-in-charge and these curity & all other dues of the Contractor shall be forfeited. This shall be in addition to other penalties.

10.3 FORUNSATISFACTORYPERFORMANCE:

If the performance does not commensurate either to the standard of work as per BIStandard/standard specified by the Owner or the progress is not as per time schedule, theContract shall be terminated with 30 days notice and security & other dues of the Contractorshallbeforfeited.

10.4 FORNON-PERFORMANCEDUETOLABOURSTRIKE:

Incase of labours trike, the Contractor shall continue the work or keep the work continued by alternate arrangement failing which Owner reserves all rights to get the work done otherwise at the risk and cost of the contractor. Also Owner reserves the right to terminate the eContract and impose penalty as in Clause 10.2

10.5 FORNON-PAYMENTOFWAGESWITHINSPECIFIEDPERIOD:

For non-payment of wages to his labours within the specified period penalty shall be imposedontheContractorasperclauseNo.8.1(x)

10.6 FORNON-COMPLIANCEOFOTHERSTATUTORYOBLIGATIONS:

In case of non-compliance of statutory provision within stipulated period, the Contract isliableforterminationatthediscretionofEngineer-in-charge.

10.7 FORNON-ADHERENCETOSAFETYNORMS:

Penalty shall be imposed on the Contractor as per Clause No.9.13 for non-adherence to safetynorms.

10.8 If generation loss contributes to the fault of Contractor, penalty to the tune of loss on account of disruption of generation or dues of Contractor including security, whichever is less shall

beimposed. The Contractor shall also be debarred from participation in any future bidding for atle ast 3 years thereafter.

If Contractor disputes to the decision of Engineer-in-charge regarding his fault, the case shallbe referred to Contract Review Committee. In such case the Contractor or his authorized representative shall be a member of the CRC for investigation and report. This joint reportshall befinal and binding on both parties.

10.9 Jobs asked by Engineer-in-charge subject to availability of related materials shall be attendedwith immediate effect. However, if the Contractor fails to do the work within reasonablehours or maximum within 48 hours as the case may be, the job may be done by engagingother agency at the cost & risk of the Contractor. In such an event, Owner may terminate theContract&debarthepartyfromfutureworkfortwoyears.

${\bf 10.10} \quad {\bf penaltyfornon-returnofexcessmaterials} is sued by the Owner.$

The Contractor shall return all surplus materials, scraps, tools & plant if issued for the work tothe warehouse in proper manner and obtain receipt to this effect before issue of

 $\label{eq:completionCertificate} CompletionCertificate by the Engineer-in-charge. If the same is not complied, the Contractor shall be$

liable for cost of the same and 20% additional charge over & above the value as perwarehouserecords and shall be recovered from Contractor's bills.

10.11 PENALTYFORKEEPINGIDLEMACHINERIES, EQUIPMENTS, T&Petc.HIREDBYOWNER:

In case of machinery, tools & plant and equipments arranged on hire by the Owner and provided to the Contractor for work, idle charges beyond reasonable period for such workshallbetheliabilityoftheContractor.

10.12 LIQUIDATEDDAMAGE(LD):

L.D.shallbeimposedonContractorasperclauseNo.6.9fordelayincompletionofwork.

- 10.13 IncaseoffailureonpartofContractortoprovideconsumablesoranyothermaterialundertheir scope & the work is affected on account of this shortfall, Owner reserves the right toarrange the same at the cost & risk of the Contractor. The amount so incurred by Owner with25%additionalchargesshallberecoveredfromtheContractor.
- 10.14 ForfailureonpartoftheContractortomeettheliabilityunderW.C.Act,P.F.Actetc.,penalt yasperClause8.1(viii)&8.2.3shallbeimposed.

 $Notwith standing any clause else where in {\tt General Conditions of Contract, all the penalty on {\tt Contractor shall be deducted from {\tt Contractor's:-}} \\$

- 1. RunningBill
- 2. Securitydeposit
- 3. AnyotherduesofContractor

Or

 $\label{eq:constraint} In case the amount exceeds the dues of the Contract or inconcerned Contract, the same shall be recovered from the contract with Owner;$

Or

If recovery shall not be possible from any of the afores aid manner, the same shall be recovered as debtliabilit y.

EndofSection-X

SECTION-XI

11.0 Arbitration:

Alldisputesordifferenceinrespectofwhichthedecisionisnotfinalandconclusiveshall,ontheiniti ativeofeitherparty,bereferredtotheadjudicationofasolearbitrator,withinthirtydays of receipt of notice from the contractor of his intention to refer the disputes toarbitrationorbyEngineer-in-Charge,theMDorMD-in-chargeofOPGCshallfinalizeapanelof three arbitrators and intimate the same to the contractor. The contractor shall withinfifteendaysofthereceiptofthislistselectandconfirmhis

acceptancetotheappointmentonefromthepanelasarbitrator.Ifthecontractorfailstocommun icatehisselectionofthename within the stipulated period, the MD or MD-in-charge of OPGC shall without

delayselectonefromthepanelandappointhimasthesolearbitrator.IftheMDorMD-in-chargeof OPGCfailstosendsuchapanelwithinthirtydays,asstipulated,thecontractorshallsenda similar panel to the MD or MD-in-charge of OPGC within fifteen days. The MD or MD-in-chargeofOPGCshallthenselectonefromthepanelandappointhimasthesolearbitratorw ithin fifteen days. If the MD or MD-in-charge of OPGC fails to do so, the contractor shallcommunicate to the MD or MD-in-charge of OPGC the name of one from the panel who shallthen be the sole arbitrator. The appointment of sole arbitrator so made shall be final andconclusive.

If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment orvacates his office due to any reasons whatsoever, sole Arbitrators shall be appointed asaforesaidbytheMDorMD-in-charge,OPGC.Theworkunderthecontractor,shall,howevercon tinueduringthearbitrationproceedings.

 $\label{eq:constraint} The Arbitrator shall be deemed to have entered on the reference, the date he issues notices to both the parties fixing the date of the first hearing.$

The Arbitrator may, from time to time, with the consent of the parties, enlarge time formakingandpublishingtheaward.

The Arbitrators hall give a separate award in respect of each dispute or difference and shall give are a sone dands peaking award/awards.

The venue of arbitration shall at Bhubaneswar only and jurisdiction for any proceedingsarisingoutoforconcerningorconnected with such arbitrations hall be of appropriat ecourt at Bhubaneswarunder the jurisdiction of Odisha High Court.

The fees, if any, of the arbitrator shall, if required t be paid before the award is made andpublished, be paid at half by each of the parties. The costs of the reference and the awardincluding the fees, if any, of the arbitrator shall be in the discretion of the arbitrator who maydirecttoandbywhomandinwhatmanner.Suchcostsoranypartthereofshallbepaidandmay fixandsettletheamountofcoststobesopaid.

 $\label{eq:constraint} The award of the arbitrator shall be final and binding on both the parties.$

Subject to aforesaid, the provisions of the Arbitration and Conciliation Act, 1996 or anystatutorymodificationorre-enactmentthereofandtherulesmadethereunder, and for the timebeing inforce, shall apply to the arbitration proceeding under this clause.

Neitherpartyisentitledtobringaclaimtoarbitrationiftherequestforappointmentofarbitrator hasnotbeenmadewithinthirty daysafterexpirationofwarranty /guarantyperiod.

11.1 JURISDICTION / GOVERNINGLAWS:

a) Jurisdiction

For all disputes, appropriate court at Bhubaneswar under the jurisdiction of OdishaHigh Court alone shall have exclusive jurisdiction in all matters arising under thiscontract.

b) GoverningLaws

The Contract shall be governed by and constructed according to the laws in force inINDIA.

EndofSection-XI

EndofGCCVolume-II

SCHEDULE

'A'REFERENCETOGENERALCONDITIONSOFCONTRACT

2.1	AcceptingAuthority	AuthoritywhofloatsNIT
2.19	MarketRate-percentageadditiontoCoverov erheadsandprofit	10percent
1.14	Earnestmoney	AsperNIT
4.9	SecurityDepositshallbecalculatedasunder: (i)ContractvalueuptoRs.1crore	10%ofcontractvalue
	(ii)ContractValuemorethanRs.1crorebutnot exceedingRs.5crore	7.5% of contract value
	(iii) ContractvaluemorethanRs.5crore	5% of contract value
	ScheduleofRatesapplicable	
3.25	Timeallowed for execution of works or times chedule.	OPWD AsperSCC
	Authority competent to decide if "any other cause"	0000
	OPGC	
8.1(vi	i) DurationofreturnofnumberanddescriptionbyFortni, radesofworkmenemployedonworkstobe submittedtoEngineer-in-Charge. Authoritycompetenttoreducecompensation	
	amount.	OPGC
5.11	DefectsLiabilityPeriods	AsperSCC
5.12	Trainingofapprentices	Maximum number tobeengagedasperth eApprenticeAct.1961.
	Category(a	
	(b)	
	(c)e	
	tc.	
6.3.1	Interimbills/runningbill	Monthly in case of maint.Contract&afterachi evingMilestone as agreed inScheduleofworkinconst-
	Page 125 of 206	

Ructioncontract.

11.1 Authorityforappointingarbitrator

OPGC

SCHEDULE'B'

		MATERIALF	ORISSUETOTHEC	CONTR	ACTOR	
SI.No			alwillbeissued			
	Qnty		/lax.allowable%	1		
		Unit	Rs.			astage
1	2	3	4	5	6	7
1	Cement	MT			ITPSwarehouse	3%
	ifissued				ornearest	
					Railhead	
2	ReinforcementSteel					
	a) Mildsteel 6 mm	MT			ITPSwarehouse	5%
	&abovedia				ornearest	
					Railhead	
	(b)Torsteelrod	MT			ITPSwarehouse	5%
	ofalldia				ornearest	
					Railhead	
3	StructuralSteel	MT			ITPSwarehouse	5%
	(platesandrolled				ornearest	
	Sectionsonly)				Railhead	
4	Allspares		NA		-do-	NA
5	Lubricant		NA		-do-	NA
6	FuelOil		NA		-do-	NA
7	Conveyorbelt		NA		-do-	NA
8	Railwaysleepers		NA		-do-	NA
9	Milliner		NA		-do-	NA
10	BallforBallmills		NA		-do-	NA
11	Rails		NA		-do-	NA
12	Point&crossing		NA		-do-	NA
13	Fishplate		NA		-do-	NA
14	Module		NA		-do-	NA
15	Cards		NA		-do-	NA
16	Monitor		NA		-do-	NA
17	Recorder		NA		-do-	NA
18	Indicator		NA		-do-	NA
19 20	Gauges, pressuretem	ιþ	NA		-do-	NA
20	Switches		NA		-do-	NA

MATERIALFORISSUETOTHECONTRACTOR

Signature of Issuing Officer..... Date..... SignatureofContractor..... Date.....

NAMEOFTHEBIDDER: NAMEOFTHEWORK:

DETAILSOFWORKSANDSERVICESOFSIMILARNATUREDONEBYTHEPARTYDURINGTHELASTTHREEYEA RS

SI.	Name	Description	Valueof	Perio	bd	The	work	is	done	Remarks
No.	of	ofwork	work			directl	yorthro	ughs	ubcon	
	Claimant			From	То	tracto	r			

Note:PhotocopyofPerformanceCertificate/CompletionCertificateofOwnerinSuppor toftheworkmentionedaboveisrequiredtobeenclosed.

ANNEXURE-II

NAMEOFTHEBIDDER:

NAMEOFTHEWORK:

CONCURRENTCOMMITMENTS

SI.	Full postal	Description	Value	Date of	Scheduled/Revisedcompl	% age	Expecteddateof	Remarks
No.	addressofclient&n	of	of	commencementofw	etionperiod	completionason	completion	
	ameofOfficer-in-ch	theworkdone	contract	ork		date		
	arge							

SIGNATUREOFTHEBIDDER:

ANNEXURE-III

NAMEOFTHEBIDDER:

NAMEOFWORK:

DETAILSOFEQUIPMENTS, TOOLS& TACKLES

Biddershallsubmithereindetailsofequipments, tools, tacklesetcrequired toperform the work (a) already owned by Bidderand available for use in this contract (b) a nticipated to be hired by contractor or (c) anticipated to be purchased by contractor. In case of (b) and (c) commitment of hire rors uppliers hall be stated.

Category	Category- wiseSl.No	Ownership status(a),(Description, makemode	Quantity	Capacity	Year of	Location ofavailabili	Remarks
		b),(c)	I & &			manufacture	ty	

Photocopy of correspondence between contractor & hirer and between contractor & suppliers hall be furnished.

NAMEOFTHEBIDDER: NAMEOFWORK:

ORGANISATIONCHART SHOWINGNO.OF QUALIFIEDENGINEERS &SUPERVISORYPERSONNELETC.INTHEEMPLOYMENTOFCONTRACTOR&TOBEEMPLOYED.

SI.No.	Classofmanpower/	DetailsofPersonneltobed	eployedonthiswork	No.
	engineer/supervisor	Available	Tobeemployed	
		with		
		contractor		

Note: Names and short resume of their qualification & experience may also be given for key personnel.

The tentative chart of your site organization as above furnished by you shall be subject to variation to suit the construction / maintenance / operation programme requirement and as directed byOwner/Engineer-in-charge.

NAMEOFTHEWORK:

INFORMATIONABOUTBIDDER

1. <u>Incaseofproprietaryfirm:</u>

- 1.1 Nameofthebusiness:
- 1.2 Whetherhisbusinessisregisteredwithappropriateauthority. If yes, name of authority.
- 1.3 Dateofcommencementofbusiness:
- 1.4 WhetherhepaysIncomeTaxoverRs.10,000/-peryear
- 2. <u>Incaseofpartnership:</u>
- 2.1 Nameofthepartnershipwithqualification:
- 2.2 Whetherthepartnershipisregisteredwithappropriateauthority:
- 2.3 Dateofestablishmentoffirm:
- 2.4 HowmanyofthepartnersofthefirmpayIncomeTaxoverRs.10,000/-ayearandifless,whatistheamou ntpaidbythem.IfallofthemdonotpayIncomeTax,whoofthemispayingIncomeTax.
- 2.5 PermanentAccountNo.underITAct:
- 3. IncaseofLimitedliabilityCompanyorCompanyLimitedbyGuarantee:
- 3.1 Amountofpaidupcapital:
- 3.2 NameoftheDirectors:
- 3.3 DateofincorporationwithRegistrarofCompany.
- 3.4 CopiesofbalancesheetoftheCompanyofthelasttwoyears:

Copies of a udited profit & loss Account and the balances he ets hall be enclosed in case of individuals, part nership as well as limited companies for the last three years.

SignatureoftheBidder

NAMEOFTHEWORK:

LISTOFENCLOSURES

THEBIDDERISREQUIREDTOENCLOSETHEFOLLOWINGDOCUMENTSASPARTOFHISBID.

- 1. PhotocopyofPowerofattorneyofthesignatoryofthetender
- 2. IncomeTax/SalesTaxClearanceCertificate/PAN/GSTRegistration
- 3. Documentsshowingannualturnoverforsimilarworksorotherwiseforthepasttwoye arssuchasannualreport,profitandlossaccountetc.
- 4. CertificatebyNationalized/ScheduleBank/CharteredAcc ountantFirmshowingfinancialcapacity.
- 5. ProvidentFundNo.&ESIRegistrationNo.
- 6. BidGuarantee/E.M.D.
- 7. Letterofundertaking
- 8. PermanentAccountNumberofIncomeTax

NAMEOFTHEWORK:

EXCEPTIONSANDDEVIATIONS

Bidder may stipulate here exceptions and deviations to the tender conditions, if considered unavoidable.

Sl.No.	Page No. of document	use/Sub derdocume	Clause of ent	Subject	Deviation

ANNEXURE-VIII

NAMEOFBIDDER:

NAMEOFWORK:

DETAILSOFPROPOSEDORGANISATION

ThebiddershallsubmithereindetailsofHeadOfficeandsiteorganizationproposaltobedevelopedforexecuti on of the work. Bidder shall also furnish the bio-data of the site-in-charge and key personnel to bedeployedintheformatprovidedinAnnexure-IV.

Bidder agrees to augment the list in Annexure-IV with additional number/categories if required and ifdirectedbyEngineer-in-chargeforsmoothexecutionofworktakenbytheContractor.

ANNEXURE-IX

LETTEROFAUTHORIZATION

(Tobesubmittedonanon-judicialstamppaperofRs.10(Rupeesten)only)

Mr./Mrs._____residingin _____andpresentlyholdingtheposition

ofthe

_____firm/Group/Individual,isdulyauthorizedbytheFirm/Group /IndividualtosignandfurnishallsuchinformationasdesiredbytheOPGCLinthisdocumentinrespectofthew ork______

> Signature: Date: (Secretary/Generalpartner/Individual/Contractor/Applicant) SEAL

- WITNESS:
- 1.
- 2.

ANNEXURE-X

SUPPORTING/ATTACHEDDOCUMENTLIST

AnnexureNo.	Supportingdocument/AdditionalSheet	DocumentNo.
1		
П		
III		
IV		
V		
VI		
VII		
VIII		
IX		
Х		
XI		
XII		
XIII		
XIV		
XV		
XVI		
XVII		
XVIII		

NAMEOFTHEWORK:

ANNUALTURNOVERSTATEMENT

The biddershall indicate here in his annual turn over during preceding 3 years based on the audited balancesheet/pr of it& loss accounts tatement.

FINANCIALYEAR	ANNUALTURNOVER(Rs.)	NETWORTH(Rs.)
Previoustopreviousyear		
Previousyear		
Presentyear		

NOTE:1. Copiesofauditedbalancesheetswithprofitandlossaccountof 3yearsshallbesubmittedalongwiththeTechnicalbidinsupportofabo veentries.

2.

BiddershallworkoutNetworthonthefollo

wingbasis:Networth: Reserve+Capital-

Accumulatedloss.

REGISTEROFWORKMEN

- (i) NameandaddressofContractor.....
- (ii) Nameandaddressofestablishmentin/underwhichcontractiscarriedon.....
- (iii) Natureandlocationofwork.....
- (iv) Name&addressofPrincipalEmployer.....

SI.No	Name &surnameof	Age&Sex	Father's/Husba nd's	Nature ofemployments /Designation	Permanentho meaddressof workman(Villa ge,&	Localaddress	Dateof commencemen tof	Dateof terminationofe mployment	Signatureort humb impressionof	Reason fortermination	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

EMPLOLYMENTCARD

- (a) NameandaddressofContractor_____
- (b) Nameandaddressofestablishmentin/underwhichcontractiscarriedon:____
- (c) Natureandlocationofwork:
- (d) NameandaddressofPrincipalEmployer:

Name	SI. No.	Nature	Wagerate(Wages	Periods	Remarks	Signatureo
ofthework	intheregis	ofemploymen	withparticu	period	ofemploymen		fcontractor
man	terofwork	t	larsof unit,		t		
	manempl	/designatio	incase				
	oyed	n	ofpiece				
			work)				
1	2	3	4	5	6	7	8

1		\${] <u>]</u>]
	Sl.No.	
2	SerialnumberinRegisterofw orkmenemployedby	Namear Namear Naturea Namear Wagepe
3	Nameofemployees	Nameandaddressofthecont Nameandaddressofestablisl Natureandlocationofwork NameandaddressofPrincipa Wageperiod
4	Designation/Natureofwork	ssofthe ssofest ssofPrir
5	Dailyattendance/No.ofunitsw orked	Vameandaddressofthecontractor
6	Totalattendance/unitsofwor kdone	ractor hmentin/unu lemployer lemployer
7	Dailyrateofwages/piecerate	derwhic
8	Basicwages	hcontrau
6	D.A.	ctiscarri
10	Overtime	edon
11	Othercashpayments(natureof paymenttobeindicated)	
12	Totaldeduction	
13	Netamountpaid	
14	Time&dateofpayment	
15	Placeofpayment	
16	Signatureorthumbimpressionof workmen	
17	Initials of contractor or his authoriz edrepresentative	
18	InitialsofauthorizedorPr incipalemployer	
19	Remarks	

REGISTEROFWAGES-CUM-MUSTERROLL

ANNEXURE-XIV

Page114of209

REGISTEROFFINES

- (b) NameandaddressofContractor_____
- (b) Nameandaddressofestablishmentin/underwhichcontractiscarriedon:______
- (c) Natureandlocationofwork:
- (d) NameandaddressofPrincipalEmployer:

|--|

ANNEXURE-XVI

REGISTEROFDEDUCTIONSFORDAMAGESORLOSS

- (c) NameandaddressofContractor_____
- (b) Nameandaddressofestablishmentin/underwhichcontractiscarriedon:
- (c) Natureandlocationofwork:
- (d) NameandaddressofPrincipalEmployer:

										Date		Remark
		sname		/loss		edca	sepr	odu	t	ofrecovery		S
SI.No.	Nameofworkman	Father's/husband' sı	Designation	Particularsofdamage/loss	Dateofdamage	Whe the rworkers howed cause a set of the se	Nameofpersoninwhosepr esenceemployee's	Amountofdeductionimpo sed	Numberofinstrument	1 st installment	Lastinstallment	
1	2	3	4	5	6	7	8	9	10	11	12	13

ANNEXURE-XVII

WAGESSLIP

Name&addressofContractor:

Name&addressofestablishmentin/underWh ichContractiscarriedon:

Natureandlocationofwork:

NameandaddressofPrincipalEmployer:

Nameandfather's/husband'snameoftheworkman:Forthe

week/fortnight/monthending:

Sexandidentificationtoken/ticketNo.:

No.ofdays	Rate of dailywages/piece	No.ofunits workedincaseofp iecerate	Dates on whichovertimew orked	Overtimehoursa nd amount ofovertimewag	Grosswagespayable	Deductions, if any	Actualwagespaid	Signature of thecontractor or hisrepresentativ
1	2	3	4	5	6	7	8	9

PROFORMABANKGUARANTEEINLIEUOFDDFOREARNESTMONEY (onNonJudicialstamppaperofAppropriatevalue)(App

licabletoBidvaluemorethanRs.25lakhonly)

Ref:

Date: BankGuaranteeNo.

To OdishaPowerGenerationCorporationLtd.,IbT hermalPowerStation, At/Po-Banharpali,Dist-Jharsugu da-768234.

DearSir,

In consideration of Odisha Power Generation Corporation having its Registered office at 7^{th.}Floor,Module – A, Fortune Towers, Chandrasekharpur, Bhubaneswar-751 023 (hereinafter called the "Owner" which expression shall unless repugnant to the subject or context include its successors and issued Tender NIT assigns)having Specification Against No dt. to M/s _____having Registered / officeat its Head

(hereinafter called the Bidder) who wishes to participate in the said tender for and you, as a special favour, have agreed to accept an irrevocable and unconditional Bank Bid Guarantee for an amount of Rs._______validup to

_____OnbehalfoftheBidder,asaconditionforparticipationinthe

saidtender.

 We,the
 Bank incorporated under
 lawandhaving

 oneof ourbranches at
 and havingour Registered office/Head office at

 ______doherebyunconditionallyandirrevocablyguaranteeandundertaketopaytothe"Own

 er"immediatelyondemandwithoutanydemurreservation,protest,contestandrecoursetothe

 extentofthesaidsumofRs.
 (Rupees
 only).Anysuch

 claim/demandmadebythesaid"Owner"onusshallbeconclusiveandbindingonusirrespectiveofanydispute

 ordifferencesraisedbytheBidder.

Thisguaranteeshallbeirrevocableandshallremainvalidupto

_____. If any further extension of this guarantee is required, the sam eshall be extended to such required period on receiving instructions from M/s ______ on whose behalf this guarantee is issued.

We, the said Bank lastly undertake not to revoke this guarantee during its currency except with theprevious consent of the owner in writing and agree that any change in the constitution of the saidtendererorthesaidBankshallnotdischargeourliability.InwitnesswhereoftheBank,throughits authorisedofficer, hasset its hand and stamp on this ______ day of ______

Witness:

(Signature)

(Signature)

Name

Name

OfficialAddress

(DesignationwithBankstamp)

AttorneyasperPowerofAttorneyNo.

Date_____

FORMOFBANKGUARANTEEINLIEUOFSECURITYDEPOSIT

(On Non-Judicial Stamp

Paper)(ApplicabletoBidofvaluemorethanRs.25la

kh)

То

OdishaPowerGenerationCorporationLtd.,Ib Thermal Power Station,At/Po-Banharpali, Dist-Jharsuguda-768234.

In consideration of the Odisha Power Generation Corporation Ltd. (Ib Thermal Power Station)havingregisteredofficeat7^{th.}Floor,Module–

A,FortuneTowers,Chandrasekharpur,Bhubaneswar-751023 (hereinafter called the "Owner / OPGC" which expression shall unless repugnant to the subject orcontext include its administrators successors and assigns) having agreed to the price, terms andconditionsofTenderandLetterofIntentbearingno.

______issuedwhichhasbeenunequivocallyacceptedbytheContractorM/s______fortheworkof______(hereinafter called the said contract) to accept a performanceGuaranteeashereinprovidedforRs.____(Rupees______only)froma Nationalized bank in lieu of the security deposit to be made by the contractor or in lieu of the deductiontobemadefromthecontractor'sbills,fortheduefulfillmentofthetermsandconditionscontainedi nthesaidcontractbythesaidcontractor,Wethe_____Bank (hereinafter referredtoas"thesaidBank"andhavingourregisteredofficeat

_____doherebyundertakeandagreetoindemnifyandkeepindemnifiedOPGCfromtimetotimetothe extentofRs._(Rupees______only) against any loss or damage, costs, chargesand expenses caused to or suffered by or that may be caused to or suffered by OPGC by reason of anybreach or breaches by the said Contractor of any of the terms and conditions contained in _______the

said contract and to unconditionally pay the amount claimed by OPGC on demand and without demurt othe extended entations and a set of the set o

2. We _____Bank, further agree that OPGC shall be the sole judge of and as towhetherthesaidContractorhascommittedanybreachorbreachesofanyofthetermsandconditionsof the said Contract and the extent of loss, damage, costs, charges and expenses caused to or suffered byorthatmaybecausedtoorsufferedbyOPGConaccountthereofandthedecisionofOPGCthatthesaidcontra ctor has Committed such breach or breaches and as to the amount or amount of loss, damage,costschargesandexpensescausedtoorsufferedbyorthatmaybecausedtoorsufferedbyOPGCfro mtimetotimeshallbefinalandbindingonus.

3. We the said Bank further agree that the Guarantee herein contained shall remain in full force and effectduring the period that would be taken for the performance of the said Contract and till all the dues of OPGC under the said Contract or by virtue of any of the terms and conditions governing the said Contracthave been fully and properly carried out by the said contractor and accordingly discharges this Guarantee, subject, however, that OPGC shall have no claim under the Guarantee after 90 (Ninety) days from the dateofexpiryoftheDefectsLiabilityperiodasprovided in the said Contracti.e.

(Date)orfromthedateofcancellationofthesaidcontract,asthecasemaybe,unlessanoticeoftheclaimund erthisGuaranteehasbeenservedontheBankbeforetheexpiryofthesaidperiodinwhichcasethesameshall be enforceable against the Bank notwithstanding the fact, that the same is enforced after the expiryofthesaidperiod.

4. OPGC shall have the full liberty without affecting in any way the liability of the Bank under thisGuaranteeorindemnity, from time to time to vary any of the terms and conditions of the said Contract

ortoextendtimeofperformancebythesaidContractorortopostponeforanytimeandfromtimetotime any of the powers exercisable by it against the said Contractor and either to enforce or forbear fromenforcinganyofthetermsandconditionsgoverningthesaidContractandeithersecuritiesavailabletoO PGC and the said Bank shall not be released from its liability under these presents by any exercise byOPGC or of the liberty with reference to the matters aforesaid or by reason of time being given to thesaid Contractor or any other forbearance, act or omission on the part of OPGC or any indulgence by OPGCtothesaidContractororanyothermatterorthingwhatsoeverwhichunderthelawrelatingtosuretiesw ouldbutforthisprovisionhaveeffectofsoreleasingtheBankfromitssuchliability

5. It shall not be necessary for OPGC to proceed against the Contractor before proceeding against theBank and the Guarantee herein contained shall be enforceable against the Bank notwithstanding anysecurity, which OPGC may have retained or obtained from the Contractor shall at the time whenproceedingsaretakenagainsttheBankhereunderbeoutstandingorunrealized.

Inpresenceof	
WITNESS	Forandonbehalfof(Bank)
1.	Signature
2.	Name&Designation
	AuthorisationNo.
	DateandPlace
	Bank'sSeal

NOTES:

FORPROPRIETARYCONCERNS:		
Shri	S/o	resident of
	carrying on business unde	er the name and style of
a		(hereinafter called " the
saidContractor" which express	sion shall unless the context r	equires otherwise include his heirs,
executors, administrators and leg	galrepresentatives).	
FORPARTNERSHIPCONCERNS		
M/s	a parti	nership firm with its office
(nereinafter called "thesaid Contracto	or"whichexpressionshallunlesstheconte
xtrequiresotherwiseincludethei	rheirs, executors, administrators a	ndlegalrepresentatives);the
names of their partn	ers being (I) Shri	S/o
	C ()	i S/o
	etc.	
<u>FORCOMPANIES</u>		
M/s	a company registered u	under the Companies Act, 1956 and
havingitsregisteredofficeinthest		
navingitsi egistel edomeentilest		dContractor" which expression shall unle
sthecontextrequirecetherwisein	cludeitsadministrators, successors	•
ssinecontextrequiresotrierwiselli	iciuuensauministrators, successorsa	มแน่สวานหาว่า.

PERFORMANCEBANKGUARANTEEFORLUMPSUMADVANCE (OnNon-JudicialStampPaperofAppropriateValue)

To OdishaPowerGenerationCorporationLtd.,Ib Thermal Power Station,At/Po-Banharpali, Dist-Jharsuguda-768234.

In consideration of the Odisha Power Generation Corporation Ltd. (Ib Thermal Power Station)havingregisteredofficeat7^{th.}Floor,Module–

A, Fortune Towers, Chandrasekharpur, Bhubaneswar-751023 (hereinafter called the "Owner" which expression shall unless repugnant to the subject or context include its successors and assigns) having a greed under the terms and conditions of the Letter of Intent dated issuedbytheOwnerwhichhasbeenunequivocally bearingno. in connection with the work of accepted by SpecificationNo... (Hereinaftercalled thesaid request of the Contractor a lump sum advance contract) to make at the

ofRs._____(Rupees_____ only)for utilizingitfor the purposeoftheContract on hisfurnishingaguaranteeacceptabletothe Owner

.We, _____Bankincorporatedunder ______andhaving oneofourbranchesat ______ (hereinafterreferredtoas"thesaidBank"do herebyguaranteetheduerecoverybytheOwnerofthesaidadvancewithinterestthereonasprovidedaccordi ng to the terms and conditions of the Contract.If the said Contract fails to utilise the said advanceforthepurposeofthecontractand/orthesaidadvancetogetherwithinterestthereonasaforesaidisn otfullyrecoveredbytheOwner,we,

						Banknere	-byunc	onar	tionali	yandirrevocabiyundertaketopayi	totheo
wnero	ndema	inda	ndwithout	tden	nurto	theextent	ofthes	aidsı	umofR	s/-(Rupees	
)		or	ly	any	claim
madeb	oytheO	wne	ronusfort	helo	ssord	amagecau	usedto	orsu	ffered	bytheownerbyreasonoftheowne	rnot
being	able	to	recover	in	full	thesaid	sum	of	Rs.	/-(Rupees	

) only with interest as a foresaid.

- We, ______ BankfurtheragreethattheOwnershallbethesolejudgeof and as to whether the said Contractor has not utilized the said advance or any part thereof for thepurpose of the Contract and the extent of loss or damage caused to or suffered by the Owner onaccountofthesaidcontractorastotheamountoramountsoflossordamagecausedtoorsufferedbythe Ownershallbefinalandbindingonus.
- 3. We, the said Bank, further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and till the saidadvance with interest has been fully recovered and its claim satisfied or discharged and till OwnercertifiesthatthesaidadvancewithinteresthasbeenfullyrecoveredfromthesaidContractor, and a ccordingly shall have no claim under this Guarantee after 30 (thirty) days from the date ofsatisfactory completion of the said contract (as per the mutually agreed work schedule) i.e. up toandinclusiveof(date)unlessanoticeoftheclaimunderthisGuaranteehasbeenservedonthebank beforetheexpiryofthesaidperiodi.e. ______ (date)inwhichcasethesameshallbe enforceableagainsttheBanknotwithstandingthefactthatthesameisenforcedaftertheexpiryofthesaidperiod.

- 4. The owner shall have the full liberty without effecting in any way the liability of the Bank under thisGuaranteeofIndemnity,fromtimetotimevaryanyofthetermsandconditionsofthesaidContractort headvanceortoextendtimeofperformancebythesaid'Contractorortopostponeforanytimeand from time to time any of the powers exercised by it against the said contractor and either toenforce or forbear from enforcing any of the terms and conditions governing the said Contract or theadvanceavailabletotheownerandthesaidBankshallnotbereleasedfromitsliabilityunderthesepres ents by any exercise by the Owner of the liberty with reference to the matters aforesaid or byreasons of time being given to the said contractor or any other forbearance act or omission on thepart of the owner or any indulgence by the owner to the said Contractor on any other matter or thingwhatsoeverwhichunderthelawrelatingtosuretieswould,butforthisprovision,havetheeffectofso releasingtheBankfromitssuchliability.
- 5. ItshallnotbenecessaryfortheOwnertoproceedagainsttheContractorbeforeproceedingagainstthe Bank and the Guarantee here in contained shall be enforceable against the Bank not with standinganysecurity,whichtheOwnermayhaveretainedorobtainedfromthecontractorshallatthetime whenproceedingsaretakentheBankhereunderbeoutstandingorunrealized.
- 6. We, the said Bank lastly undertake not to revoke this Guarantee during its currency except with theprevious consent of the Owner in writing and agree that any change in the Constitution of the saidcontractororthesaidBankshallnotdischargeourliabilityhereunder.

If any further extension of this Guarantee is required the same shall be extended to such required periodsonreceivinginstructionsfromM/s

onwhose behalf this Guarantee is is

sued.		
Notwithstanc	/-(Rupees only)togetherwithinterest.C	foreourliability under this Guarantee is restricted to Rs. Dur under taking shall commence from the date of execution an
usham emann	-	dayof
Inpresenceof		forandonbehalfof(theBank)
WITNESS	S	iignature
1.	Ν	lame
2.	C	Designation
		AuthorisationNoSealoftheBank
	Theaboveguaranteeisaccepted	dbytheOwner
NOTES		For and On behalf of thelbThermalPowerStation

ForProprietaryConcerns Shri_____Sonof_____ expression shall unless the context requires otherwise include his heirs, executors, administrators andlegalrepresentatives). ForPartnershipConcerns M/s_____apartnershipfirmwithitsoffice (hereinaftercalled "thesaidContractor" which expressionsh allunlessthecontextrequiresotherwiseincludetheirheirs, executors, administrators and legal representatives) thenameoftheirpartnersbeing (I)Shri_____
 S/o______(ii)Shri_____

 S/o_______etc.
 ForCompanies M/s______acompanyundertheCompaniesAct1956andhavingitsregisteredoffi ce_____intheStateof___ (hereinaftercalled "thesaidContractor" which expressions hall unless the context requires otherwise include it sadministrators, successors and assigns).

STANDARD OPERATING PROCEDURE

CONTRACTOR SAFETY MANAGEMENT PROCEDURE [PART-II]





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Document No. : OPGC/1/SFT/SOP/034

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1. INTRODUCTION

59.

The purpose of this standard is to specify the requirements for managing safety when contracting work. This safety standard is based on the best practices for managing contractor safety in the utility industry.

CONTRACTOR shall perform all work required by his Contract in a safe, healthy and environment friendly manner. During the course of work, the CONTRACTOR is directly responsible for; shall comply with; and enforce all laws, rules; regulations of OPGC are relevant to the work being performed. CONTRACTOR will manage all subcontractors on site and will be accountable for subcontractor performance with respect to Environment, Health & Safety and (EHS).

Prior to the start of any work, the Contractor shall survey the planned work and submit and review Contractor's SHE Program and Plan to the OPGC concerned Project Manager.

2. SCOPE

This program lays down the SHE related requirements and guidelines and provides advice based on local experience and legal requirements for safe working practices for all activities of the project involved with high & medium risk. This SHE management program also applies to all personnel involved in Company projects. All parties are required to comply with this safety program as well as all National, State and Local regulatory guidelines.

3. OBJECTIVE

These rules guide people's behavior during work days. They are needed to control hazards that can affect everyone. This procedure has been developed to assist both OPGC and Contractor Managements to control these hazards and ensure that high standards of safety to which OPGC is committed have been met. The procedure shall be provided to all high & medium risk contractors with other bid documents. Contractors participating in the bidding shall go through the procedure carefully & submit an undertaking in the format given as in **Appendix-2**.

4. ENVIRONMENT, HEALTH & SAFETY POLICY OF OPGC:

Contractor (s) shall strictly follow OPGC EHS Policy guidelines. The spirit of the EHS Policy shall be reflected during the course of contract execution by implementing the minimum EHS expectation of OPGC as declared in the Policy objective. Refer OPGC EHS Policy as enclosed as enclosure.

5. RESPONSIBILITIES

To clarify the individual party designations referred to within this guide, to identify the hierarchy of reporting and approval necessary, and to delineate the designated responsibilities related to the OPGC safety policy, the following is to be used:

OPGC Project Manager - OPGC personnel directly responsible for the site construction/safety activities on the project involved.

OPGC Site Safety Manager - Person designated to carry out, monitor, and enforce safety policies of OPGC on the project.

Contractor's Site Manager - Person designated as the senior site manager by the Contractor chosen for the project. **Contractor's Safety Manager** - person designated to carry out, monitor, and enforce safety policies of the Contractor on the project, in compliance with the project agreements OPGC policies. Supervisor - lead field labor supervisor or foreman for the Contractor/Subcontractors.

Personnel – individuals performing the labor tasks for the Contractor/Subcontractors.

6. DEFINITIONS AND INTERPRETATIONS

In the Contract, the following words and phrases have the meaning hereby assigned to them, except where the context otherwise requires.

<u>Contractor</u> – A person or company contracting with OPGC to supply products or services.

<u>Sub-Contractor</u> - A person or company employed by the prime or general contractor who is contracting with OPGC to supply products or services.

<u>Contractor Pre-qualification</u> – This process is an assessment of contractors wishing to work OPGC. The process is independent of individual contracts and is carried out to ensure that only contractors with acceptable past safety performance and appropriate safety programs are awarded work.

<u>Contract Administrator</u> – An OPGC person assigned responsibility for administering contracts, including preparation of the contract tender or request for proposal (RFP) documents, arranging pre-bid meetings, coordinating the bid/ proposal evaluation process and recommending the awarding of the contract.

<u>**Project Manager**</u> – An OPGC person who is given the overall responsibility and authority for the successful completion of a project. His/ her responsibilities include the assignment of the contract monitor, conducting the preconstruction site meeting, resolving contractor safety performance issues, final inspection of the work, conducting the closing meeting with the contractor and completing the contractor evaluation.

<u>Contract Monitor (Engineer In Charge/EIC)</u> – An OPGC person who reports to the Project Manager and is responsible for monitoring the contractor's safety performance and providing feedback to the Project Manager. The Contract Monitor will compare the contractor's work and work methods with the standards and expectations defined in the contract.

<u>OPGC Contact Person</u>- The EIC of the Contract is termed as the OPGC contact person for that contract only.

<u>Contractor Safety Orientation</u> – A meeting at the start of each contract involving all contractor employees to discuss AES safety standards and the specific safety requirements for the contracted work.

<u>High-Risk Work</u> – Work that exposes contractor's employees to hazards that, should an incident occur, may result in a fatality or permanent disability; examples include but are not limited to, high voltage electrical work, confined space entry, exposure to asbestos, work around water, working aloft >6 ft., craning & rigging, scaffolding & shoring.

<u>Medium-Risk Work</u> – Work that exposes contractor's employees to hazards that, should an incident occur, may result in a temporary disability; examples include but are not limited to, plant and facility maintenance, minor excavation, welding, carpentry, civil work.

Low-Risk Work – Work that exposes contractor's employees to hazards that, should an incident occur, may result in a minor injury but not a lost time injury; examples include but are not limited to, training, consulting, office equipment maintenance, office cleaning.

<u>Hazard Assessment</u> – An assessment of the contracted work to identify and document the hazards inherent to the work site and facility. The hazard assessment is provided to the bidders as part of the bid/ request for proposal documents.

Daily Job Safety Plan – A process that individual employees and working crews must follow to assess and document

the critical safety issues pertaining to the day's work.

<u>Shall/Will:</u>The word 'shall' is to be understood as mandatory

Should: The word 'should' is to be understood as strongly recommended

May: The word 'may' is to be understood as indicating a possible course of action

<u>Restricted Areas</u>: A Restricted area is defined as that area over which OPGC exercise control of all movements and operations and where entry is granted only with permission from OPGC.

Hazardous Areas: An area in which there exists or may exist flammable or other hazardous atmosphere.

Safety Document: Is a formal written statement used to control the Risk associated with the works performing in OPGC Premises.

Electrical Equipment: Any producer, carrier or consumer of electrical energy.

7. PROGRAM REQUIREMENT & IMPORTANT GENERAL SAFETY INSTRUCTIONS:

The goal of this program is to complete the project with zero incidents. This goal can only be achieved when everyone commits to error-free performance. The commitment to achieve this goal will result in increased productivity and the prevention of job related losses.

Active participation and personal cooperation of all supervision and employees, and a positive coordination of their efforts carrying out the following:

- Stop Work Authority program. It is both the right and responsibility of all EMPLOYEES, be they OWNER, CONTRATOR or SUB-CONTRACTOR to stop any work activity that currently has, or has the potential to develop into an unsafe situation. Work must stop immediately after an unsafe situation is identified, regardless of the job's priority or importance. Work shall resume only when the unsafe situation has been remediated. Never hesitate to stop work it doesn't matter if it's later determined that invoking the work stoppage was an error. A person will not suffer retribution or negative consequences of any sort for stopping work for safety reasons. Establish and maintain a system for early detection and correction of unsafe practices and conditions.
- > Contractors on OPGC site must obey OPGC safety rules, signs and instructions.
- > All contract employees have a responsibility for their own safety and the safety of others.
- The Contractor may not charge or back charge OPGC for any delays, work stoppage, or scheduling issues resulting from enforcement of the OPGC Safety Rules.
- Contractors are responsible for establishing control measures to protect employees under their control from exposure to hazards, including but not limited to chemical, health and physical hazards present at the work location.

- Contractor shall furnish, erect, and maintain warning notices, signs, signals, lights, protective guards, enclosures, platforms, barricades and other devices as necessary to adequately protect all personnel on site; including but not limited to employees, subcontractors, other contractors, OPGC people and the public.
- If the scope of work requires the removal of existing guardrails, handrails, floor grating or other physical barrier, contractor shall have written permission from OPGC Project Manager. Barriers that have been removed to facilitate work must be properly replaced as soon as the work is completed. Unguarded openings must be attended at all times.
- If covers are required to protect floor openings, excavations, trenches, pits, then the contractor must ensure the cover is capable of supporting, without failure, at least twice the weight of any employee, equipment and/or material that may be imposed on the cover at one time.
- Chemicals must be handled in authorized manner. Handling of chemical must be carried in accordance with Material Safety Data Sheet (MSDS) regulation and EIC /Officer In charge/supervisor's guideline.
- Establish and implement safety education programs designed to stimulate and maintain the interest and active participation of all personnel involved with the project. Such programs should include:
- Safety meetings and safety communications;
- Use of incident trends and causal analysis to preclude reoccurrence of similar incidents;
- Use of proper work procedures, personal protective equipment, and mechanical guards;
 - Safety instruction to individual employees and group safety training programs; and Managing records, incidents, claims, losses, and development of incidence/loss experience summaries.

8. ESSENTIAL DUTIES:

- (i) Use effective verbal and written communication skills.
- (ii) Listen to directions and suggestions from Project Manager/EIC/Supervisor/EHS officers regarding safe and proper work practices.
- (iii) Work up to a 12 hour shift. Never work beyond 12 hours unless otherwise OPGC Project Manager allows to do so.
- (iv) Climb and maintain balance on steel framework, stairs, ladders and scaffolds.
- (v) Identify workplace safety hazards and take all necessary corrective action to eliminate or minimize them.
- (vi) Understand and respond appropriately to all safety hazards and warning devices (i.e. back-up alarms, smell of smoke, different colored warning tags, warning sirens).
- (vii) Understand and implement lockout/tag out procedures in a safe manner.
- (viii) Produce quality work, meeting requirements of company policies, procedures and industry standards.
- (ix) Be motivated and work productively.
- (x) Participate in the jobsite Safety meetings as required.

9. OPGC SAFETY CARDINAL RULES/ZERO TOLERANCE ISSUES:

"Cardinal Safety Rules" are OPGC rules that, if violated, have a high probability of resulting in a serious adverse outcome. Contractors must ensure that employees working under their control do not violate these Cardinal Safety Rules. Failure to comply with Cardinal Safety Rules will result in immediate corrective action for the employee and, if OPGC determines it appropriate, the Contractor, up to and including termination from the current job and removal from consideration for future OPGC contracts. The OPGC Cardinal Safety Rules are:

- (i) Personal Protective Equipments (PPEs) as applicable to a given task must be used at all times.
- (ii) All high or medium risk jobs must be performed with valid Job Safety Analysis (JSA) followed by pre-job briefing.
- (iii) No entry to ITPS plant premise or no permission to do any work at ITPS under the influence of alcohol or drugs.
- (iv) Do not walk or work under a suspended load & use only tested & certified lifting tools & tackles on the job.
- (V) Do not handle and operate equipments unless authorized & licensed to do so.
- (vi) Do not tamper or remove guards, hand rails and other safety systems unless authorized to do so.
- (vii) Ensure energy isolations, lock-out-tag-out (LOTO) and strictly follow work permit instructions.
- (viii) Never work of & above 06 feet (1.8 meters) without fall protection.
- (ix) All injuries & near misses must be reported.
- (x) Illegal handling or disposal of hazardous materials not allowed.

(Note:- Deviation/lapses from the above cardinal rules but not limited to these are treated as major safety violation.)

10. HYGIENIE, GENERAL PRACTICES / UTILITIES FOR REST & FOOD INTAKE:

The Contractor shall ensure that its personnel shall maintain the highest standards of hygiene in connection with the performances of any contract for works or services it may have with OPGC.

The only safe source of drinking water is a drinking fountain/taps. Other sources shall not be used.

- Do not use air, gas, water, electricity, fuel or other site facilities/utilities unless the source of supply has been designated & authorized by OPGC.
- Contractor personnel must not enter any building or area not required by their work. Wandering about the plant is prohibited.
- Contractor personnel are permitted for taking food in designated places either in OPGC Canteen or in any other designated site.
- > Contractors shall take rest in designated rest sites. Taking rest in work places is prohibited.
- > Taking rest & food in unauthorized sites will be treated safety rule violation;

11. SITE ENTRY PROCEDURE

The Contractor must comply at all times with the requirements of OPGCSite Security rules. The contractor for all personnel requiring admission to the Site, a Security gate pass request must be processed in advance.

11. 1."Gate Entry Pass" will be issued by the OPGC site administration and contractor person/people need to proceed to the OPGC contact person directly to follow the safety induction procedures. Gate Pass will be issued after site safety induction/training and duly certified by EIC on the gate pass entry request application. After imparting safety trainings, the gate passes will be stamped/ marked as 'Safety training imparted'. No contractor and their employees shall be allowed to enter inside the Plant for carrying out jobs unless the safety training has been given to them and duly stamped as above

OPGC may issue to the Gate Entry Passes" for the admission of contractors and "Visitor Gate Passes" to the normal visitors.

These passes are to be returned on the demand of OPGC and in any case at the completion of the contract.

All Contractors'staff must enter and leave the site via the Security Gate.

All Contractors' staff will have to produce their gate entry pass if asked by Security when entering AND leaving site. This applies at all times.

If any of the Contractor's or Sub-contractor's staff is found unjustifiably outside the working areas, then they will be removed from Site.

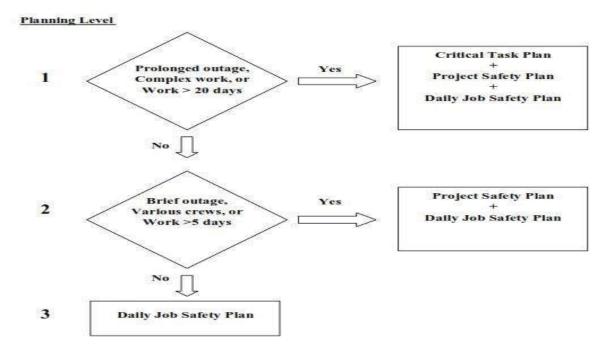
Ensure your name is recorded on the appropriate Contractors daily attendance page.

11.2. The contractor shall furnish to EIC the list of materials such as lifting tools and tackles, power tools, T &Ps (testing status to be maintained), gas cylinders, and any hazardous chemicals along with MSDS to be mobilized before commencement of work. All these materials shall be checked at Plant gate by Security, EIC & EHS for no objection. Contractor at no situation shall enter untested or substandard or unapproved tools, equipments or vehicles. Tested and approved tools, equipments& vehicles only can be entered into Plant Premises. Unauthorized entry of hazardous substance is strictly prohibited from Plant gate. Contractor materials shall be entered inside Plant with valid Security Certification on recommendation of EIC. Violation of the OPGC site entry rule shall be treated major safety violation. Strong disciplinary step will be booked against the violation.

12. PROJECT SAFETY PLAN & DAILY JOB SAFETY PLAN:

After knowing the detail hazard information of high or medium risk jobs, contractor shall provide a comprehensive project safety plan fulfilling minimum Safety expectations of OPGC.

Daily Job Safety plan shall be prepared by the Contractor in advance before commencement of a particular day's job. The project safety plan & its suitability/ appropriateness for the Contract job shall be verified & approved by the Project Manager. This is one of the important Contractor's job planning activity.



13. HEALTH & FITNESS

The Contractor shall ensure that all its employees engaged in the work are medically fit and healthy. Any medical disabilities including such disabilities which Contractor may consider will not adversely influence the employee's ability to perform his role in the work should be reported to OPGC prior to the start of the Work. Contractor shall provide health certificates in compliance with Odisha Factory rule for their personnel at the time of applying gate entry pass. No contractor personnel will be issued gate entry pass without the submission of health & fitness certificate in the prescribed form. Contractors will closely monitor the requirement of health check up at an interval of one year for their employees.

14. WORK PERMIT

Work Permits will be issued in accordance to OPGC PTW procedures before performing any activity/function such as entry inside confined space, inside tank/vessel, excavation, work involving radiation sources etc, work at height, working with machineries &equipments. Specific permit for hot work e.g. cutting, welding, grinding, chipping or sand blasting shall also be issued. During such activities the contractor shall ensure that a fire watch is deployed and the person must clearly understand his duty & responsibility. Project manager/ EIC or his authorized representative supervising the job shall be responsible for obtaining & clearing the permit with the knowledge and consent of the contractor or his representative. It shall be the responsibility of the contractor to see that none of his employees start the job until, an appropriate permit has been issued with proper isolations followed by Pre-job briefing and job safety awareness by the EIC and the contractor or his safety coordinator.

15. HOUSE KEEPING & CLEAN SITE

The Contractor shall ensure that the site of the works is kept free of surplus, waste or redundant materials or items and shall maintain a clean and tidy site throughout the duration of the work. Access ways and emergency exits shall be kept clear from obstruction at all times. Combustible scrap and debris shall be removed at regular intervals during the course of project. All solvents shall be kept in approved, properlylabeled containers. Contractors' bill payment will be held up unless otherwise housekeeping of their job site is maintained.

16. SITE OFFICE AND STORES

The Contractor will be allowed a working area on the site which shall be maintained by the Contractor for his site offices etc and on completion of the contract shall reinstate this area at his own expense, to the satisfaction of OPGC. The Contractor will also be given access to any reasonable area around the site.

17. SAFETY EQUIPMENT

The Contractor shall, at its own expense, provide adequate safety equipment of an approved type and amount as is required for the execution of the contract works. The Contractor shall maintain this equipment in a professional manner as dictated by legal and industry standards. In addition, the Contractor shall keep up-to-date records of all said equipment.

17.1. PROTECTIVE PERSONNEL CLOTHING AND EQUIPMENT

The Contractor shall, at its own expense, supply its personnel employed at the site of the works with adequate protective personal clothing and other protective equipment which shall be maintained in good condition or replaced, and shall be worn on all relevant occasions as specified by OPGC and good practice. It is the responsibility of the contractor to provide adequate instruction/training for the correct usage and maintenance of these equipments& PPEs, inspection & suitable storage of their Personal Protective Equipments. The Contractor is also responsible for ensuring that the PPE is used and maintained in accordance with the manufacturer's specifications.

In the event that the Contractor fails to supply or provide adequate safety equipment or PPE, OPGC reserves the right to issue such safety equipment/PPE to the workforce provided by the Contractor and back charge the same from the Contractor with two (2) times of the cost of item as administration fee for every item issued.

PPEs shall meet the following minimum standard and shall be maintained in good condition to give desired level of protection to wearer. Contractor has to assess the quantity of PPE required considering the job hazard and nature of job.

SPECIFICATION & SELECTION OF PPES:

A. SAFETY HELMET/HARD HAT-

IS/ DGMS/ CE/ ANSI certified

Material- HDPE and ABS Plastic

Colour- DARK YELLOW with name of contractor mentioned in front portion.

All safety helmets shall have textile chin strap, padded head band & of Plastic or Cotton cradle.

Make & Brand- Karam PM 501/ MSA/Venus C-112 or 113/ Udyogi- Ultra 5000L/

Kalgem-Tortoise or any other equivalent brand approved by OPGC EHS

B. SAFETY GLASS/ SAFETY GOGGLES - IS/CE/ANSI certified

Polycarbonate, UV protected, Anti scratch, Anti fog

Colour- Colourless for all time and strictly in low light areas and night time. Grey may be used in day time within areas with adequate visibility.

Make & Brand- 3M/ Uvex/ Udyogi-UD 61/ Karam-ES005/Venus- G-203-CHC or any other equivalent brand

approved by OPGC EHS

Prescription glasses users shall use cover the glass.

C. SAFETY SHOE :

IS/ DGMS/ CE/ ANSI certified

Leather with Steel Toe

Anti Static, Anti Skit, Anti Shock, Oil & Acid resistant with shock absorber

Make & Brand- Bata / Liberty/ Jaypee 1217/ SG Security- Concord or Black night/ Udyogi- Tango,

Mallcom- Tiger/ ACME Fabrick- Atom/ or any reputed brand approved by OPGC EHS

D. DUST MASK-

IS/ CE/ ANSI certified

Venus V4 20 SLV- FFP2/ 3M with Fine particle filtration efficiency greater than 94%.

E. EAR PLUG/EAR SEAL/EAR MUFF-

IS/CE/ ANSI certified 3M/ Venus/ Karam/ Equivalent

F. HAND GLOVES -

IS/ DGMS/ CE/ ANSI certified Material (Heavy Duty)- Finger Chome leather, 05 fingers provision Material (Light Duty)- PVC dotted type of reputed brand Make- Kaybee/ Udyogi/ Karam/ any reputed brand Besides the above, for electrical, chemical handling or for any other special type activity, appropriate rating IS/CE/ANSI certified hand gloves shall be used.

G. WELDING FACE SHIELD ATTACHABLE TO HELMET -

IS/ DGMS/ CE/ ANSI certified /UV & IR protected, Superior quality

Make- Karam -ES 71, Unicare, Udyogi/ any other reputed brand

H. FALL ARREST SYSTEMS (SAFETY HARNESS, ANCHORS, FALL ARRESTORS, LIFELINES ETC)

Shall be EN/ ANSI Certified with CE marking. Make- Karam/ Udyogi/MSA or any reputed brand finally approved by OPGC Safety Officer.

Life lines shall be EN 795, Class B of Karam Polyster webbing type or Polypropylene 16mm dia synthetic rope or 8mm standard wire rope 5000lbs (22KN) rating.

Refer section-41 (Fall Protection) for details.

Rest of the PPEs as appropriate to a particular hazard or as mentioned in MSDS (Material Safety Data Sheet) shall be provided to the persons engaged for the job by the Contractor in accordance with relevant BIS/ANSI/EN standards.

17.2.PPE ZONES & PPE EXCUSE ZONES

SI No	PPE type	Area of Use	Excuse areas/locations
1	Helmet	Compulsory from Plant Gate. Two wheelerriders & pillion riders must use crash helmetwhile drivingCompulsory while working in other facilitiesoutside plant viz, Ubuda Coal loading point, AshPond, Ash brick plant, Sewage Treatment Plant andColony premise.	Offices, Office Corridors, Control rooms, Canteen, hospital & Service Building front while people are with no work or with office work activities with no risk to head from external source.
2	Safety Shoe	Compulsory from Plant GateCompulsory while working in otherFacilities outside plant viz, Ubuda Coal loadingpoint, Ash Pond, Ash brick plant, SewageTreatment Plant and Colony premise.	Places other than the areas specified.
3	Safety glass	Compulsory in all work areas Compulsory while working in other facilities outside plant viz, Ubuda Coal loading point, Ash Pond, Ash brick plant, Sewage Treatment Plant and Colony premise.	Main road from Plant Gate to CHP Track hopper, Other roads except the roads inside Boiler area, Offices, Office Corridors, Control rooms, Canteen, Hospital while people are with no work or with office work activities with no risk to eye from external source.
4	Ear Plug/Seal/ Ear Muff	In all high noise areas greater than noise level 85 dBA	Places other than high noise areas
5	Hand Gloves	Compulsory during all field works, material handling, working where risk of injury to hand prevails	Office activities
6	Dust mask	In all dust generating areas(ESP hopper cleaning, Dry Ash handling, Cleaning, Sweeping, Soil excavation, Asbestos/Asbestos containing material handling, Coal Handling Plant, Painting work, visible fugitive emission in Boiler	Excuse for non dust generating Areas

		and other areas etc)	
7	Welding face	During welding operation only	Non Specified activities
	shield		_
8	Cutting glass	During cutting operation only	
9	Chemical	During fuming Chemical handling or hazardous	
	respirators	gas handling. Atmosphere with Chemical fumes,	
		hazardous gas fumes. During welding operation.	
10	Chemical	During hazardous Chemical/ substance handling,	
	Suit/Apron	Lead acid Battery maintenance	
11	PVC/Rubber	During hazardous chemical/substance/waste	
	hand gloves	handling & Lead Acid battery maintenance.	
12	Chemical	During hazardous chemical/substance/waste	
	Goggle/ Face	handling & Lead Acid battery maintenance.	
	shield		
13	Encapsulated	In Chlorine atmosphere greater than 50	_
	suit for Chlorine	РРМ	
14	Self Contained	Toxic gas atmosphere (Chlorine,	-
	breathing	Ammonia, Carbon monoxide, Acid fumes)	
	apparatus	where chemical respirator is not recommended,	
		Confined Space with hazardous fume or gases	
15	Arc flash Suit	During Electric Panel Breaker & MCC modules	-
	with boot and	Operation	
	hood of suitable		
	rating		
16	Electrical hand	Working with live electrical power sources	
	gloves of		
	suitable rating		

17	High temperature hand gloves & jacket	Working with Steam lines	
18	Hard toe rubber gumboot	Working in Mud, Sludge, Water, dense wild grass areas, other place taking Safety Officer's approval	
19	Lead laminated coverall	Working with radiographic substances	
20	Reflected jacket	Inside confined spaces and as advised by OPGC Project Manager/EHS	
21	Cotton Boiler Suit	Working inside Boiler / and as advised by OPGC Project Manager/EHS	
22	Full body harness	Working above 5.9 ft without fall protection	
23	Welding jacket/suit & hand gloves	Standard flame resistant welding jacket/suit & heat resistant leather hand gloves	

17.3.CONTROL ON PPE: The samples of PPE to be used by contractor at site shall be submitted to OPGC S a fe t y Officer i n a d v a n c e for approval. On approval, the Safety officer will retain the sample. The approved quality PPE (Make/Brand and colour) shall be used by contractor at worksite throughout the job. Any unauthorized change of model/ brand/ colour of PPE from the sample shall be considered as Safety violation and may lead to disciplinary action. On completion of work, the sample shall be returned to the contractor. The specification given above for different types of general PPEs is minimum quality standard. Contractors are free to provide better quality PPEs but such PPEs quality shall be approved from OPGC Safety Officer prior to use inside OPGC premises.

18. TRAINING

18.1. SAFETY ORIENTATION

The Contractor shall ensure that all its personnel have been given the necessary safety and job related training required by OPGC regulations and good practice prior to starting work.

Contractors will be responsible for providing their employees and any subcontract employee with all safety information provided to it by OPGC including, but not limited to:

Project-specific occupational health and safety expectations;

Exposure to atmospheric health, serious physical or chemical hazards; and Precautionary measures and procedures for performing the work.

18.2. PRE- JOB BRIEFINGS

Contractors shall conduct pre-job briefings and toolbox talk/ safety talks with employees under their control prior to work each day. Additional job briefings shall be held if significant changes occur during the course of the work

that might affect the safety of the employees.

19. COMPETENCY OF CONTRACT EMPLOYEES.

Contractor shall assign competent employees as per the requirement of the job. Supervisors should be so qualified that he can clearly communicate with his team members. Besides, Supervisors shall be able to communicate in English. All high skilled & semiskilled employees must have job specific competence. OPGC will evaluate/verify competence and will reject employees who are not found with inadequate competency.

20. RESTRICTED AREAS

All Contractors must receive authorization from the OPGC Contact Person before performing work in areas posted "DANGEROUS" or "HAZARDOUS" or "RESTRICTED" or some other warning signs. Contractors shall install warning tape for areas that require additional warning because of the work being performed there.

21. ALCOHOL AND DRUGS

The Contractor shall ensure that its personnel do not at any time, during the performance of the work, partake of or be under the influence of any alcohol, drug or other intoxicating substance, while on duty, other than for bonafide medical reasons certified by qualified medical practitioner. Person found with violation of this rule will be immediately removed out of OPGC site and appropriate disciplinary action will be imposed to the contractor.

22. DRIVING & PARKING

All heavy vehicles and other related machinery required in connection with the work shall be fit for purpose, prior to and during the period of the work.

The Contractor shall ensure that only permitted personnel (by way of valid OPGC Driving License) are able to operate vehicles as per the classification of vehicle.

Contractor shall strictly comply with Speed limit of 20Kmph in all areas inside the plant for passenger vehicles. Heavy vehicles speed shall not exceed 10kmh at any point of time.

Parking of Vehicle is allowed only in the designated areas. Deliveries of materials, tools and/or equipment shall be coordinated with OPGC contact person and Security. After the delivery is made to the job site, the delivery vehicle must be parked in the designated parking area or must exit the job site.

Operators of mobile equipment must wear hard hats and safety glasses unless the equipment has a fully-enclosed cab. Seat belts must be worn when operating equipment. No Contractor shall permit earthmoving or compacting equipment that has an obstructed view to the rear to be used in reverse gear unless the equipment has in operation a reverse signal alarm distinguishable from the surrounding noise level or unless a contractor-designated employee signals that it is safe to do so.

The Contractor undertakes to ensure that all drivers comply with the following basic rules:

- Always wear a seat belt;
- > Always observe traffic rules, especially speed limits;
- Never drive after consuming alcohol/drugs;
- Never drive when very tired;
- Never overload the vehicle;

- Drive carefully;
- > Be sure that before starting the vehicle the area near and under the vehicle/trailer is free from persons asleep.
- > Vehicles are PUC certified with validity of expiry.
- Heavy vehicles are provided with fire extinguishers

CRASH HELMET USE – Riding two wheelers without the use of crash helmet from plant gate is prohibited.

Contractor shall ensure, the crash helmet is all times being used by his people riding two wheeler.

23. SAFETY MEETINGS

The Contractor shall be responsible for maintaining and enhancing the safety awareness of its personnel including arranging its own safety meetings and participating as appropriate in safety meetings held by OPGC.

24. SAFETY INSPECTION / AUDIT

The Contractor shall inspect the work site, equipment and tools on regular basis for compliance with these rules and regulations, and shall be obliged to take the necessary measures to correct unsafe conditions and unsafe practices.

The Contractor shall allow OPGC representative access at any time to plant, equipment, personnel and records when requested, to enable OPGC to inspect aspects of Contractor's operations relevant to safety and working environment.

25. REPORTING AND INVESTIGATION

The Contractor shall report all near misses, incidents or accidents to OPGC contact person or central control room immediately.

The Contractor shall allow OPGC representative access at any time to plant, equipment, personnel and records when requested, to carry out formal investigations to find out the root causes and there by identify the required corrective actions to avoid the reoccurrences.

Upon completion of the Work under contract and/or on a monthly basis, whichever is more frequent, the Contractor shall prepare a summary report of its safety performance together with accident statistics and submit to OPGC.

26. INJURY MANAGEMENT

Basic Life support facility (first aid) is available in OPGC. Contractor supervisors should be trained with first aid.

In case of an injury to some contract worker, please inform immediately available OPGC personnel or first aid centre or central control room using (phone 248/222/0664522222).

Only trained and certified people shall provide first aid to the injured.

In case of doubt, injured personal shall not be moved or transport improper vehicles because it may complicate the

injury more and some cases may lead to death.

Only Designated vehicles (Ambulance) shall be used for transportation of patients.

27. JOB SAFETY ANALYSIS (JSA) & JOB SAFETY BRIEFING (JSB)

> The Contractor shall adopt the OPGC JSA & JSB practice/advice.

> The Contractor shall ensure that its supervisors and are fully conversant with OPGC JSA & JSB Process/ System.

- Under no circumstances must work be started until the appropriate JSA has been prepared and complete the Prejob briefing.
- Competent person from the contractor and in-charge of the work from OPGC shall conduct the Pre-job briefing to all members.
- Competent person from the contractor and in-charge of the work from OPGC shall make available a copy of the safety document at site.
- > Sample Job Safety analysis in prescribed format is furnished in appendix below.

28. EMERGENCY PROCEDURES

The Contractor shall follow the OPGC Emergency Response Plan (ERP) during the period of the work and shall ensure that its staff are fully familiar with the actions to be taken in case of an emergency.

28.1. EMERGENCY PLANNING:

Contractors must inform his people on the actions to be taken in the event of fire, explosion, personnel injuries or other emergencies. The contractor shall also keep abreast & acquaint of his persons regarding "Emergency Response Plan" of ITPS, assembly points, DO's & DON'Ts during emergencies at regular intervals in monthly EHS meeting.

28.2. EVACUATION PROCEDURE:

Identify the escape routes available to you before you commence work. Know the assembly points and directions to reach there in case of emergency.

When the emergency siren sounds, immediately leave the area by your nearest evacuation route to Emergency Assembly Point. If you are using power equipments or vehicles you must switch it off and make it safe before evacuating.

DO NOT RUN AND DO NOT STOP TO COLLECT YOUR BELONGINGS.

Report to the emergency assembly Points as per the instructions given on loud speakers/ public address system. Obey instructions given by the OPGC contact person staff and assembly point coordinator.

Remain at the assembly point until instructed otherwise. Do not re-enter evacuated areas until the **'all clear'** announcement is made by the Main Control Room.

Emergency Siren test is carried out every Saturday at 11:00 hours for two minutes and require no action.

28.3. REPORTING EMERGENCY:

If you discover a fire, or any other serious incident/emergency phone 222/233/244 using the site telephones, this will connect you to the Plant Main Control Room. Other

Emergency Contacts are-		Intercom	P&T
Fire Station	777	06645222257	
Ambulance	277/248	06645222216	
Hospital	666	06645222243	

Give your name, location, and the details of the emergency. Follow any instructions given. Only take emergency action if competent to do so, e.g. resuscitation, first aid, fire fighting etc. If safe to do so remain in the vicinity to give relevant information to the assistance when it arrives. **Never** endanger **your** safety.

29. SAFETY SUPERVISOR

If the numbers of contract workers are more than or equal to 50 (fifty), the Contractor shall be required to provide full time safety supervisor who will be responsible for ensuring the work is performed in accordance with the applicable safety requirements. For every 50(fifty) employees thereafter there shall be one Safety Supervisor/Officer. The On-Site Contractor Safety supervisor/officer(s) must have appropriate knowledge and skills, to ensure job site safety. For contractor worker less than 50(fifty) in job, the work supervisor can be utilized for safety supervision but in case the Project Manager find ineffective supervision, the contractor may be asked to provide independent safety supervisor.

Contractor Safety Supervisors should be qualified & experienced enough to deliver their assigned jobs effectively as per expectation of OPGC Project Manager/EIC & EHS. Before their work assignment, Contractor has to provide the list of their safety professional along with Safety In charge stating name, qualification, and experience & contactnumber to the Project Manager & EHS. The supervisors' competency will be evaluated by OPGC EHS prior to issue of gate pass. Only OPGC EHS competence certified Safety supervisors will be permitted for Safety Supervision at Contractor work sites. Competency certification may vary depending on the nature & risk level involved with the contracted job. Contractors are not permitted to execute job without deployment of Safety Supervisor(s) as specified under this condition. Contractor Safety Supervisors performance will be monitored by OPGC EIC & EHS and the instruction & advice of OPGC shall be implemented promptly. OPGC will impose appropriate penalty if the Contractor fails to implement OPGC's safety expectation satisfactorily.

30. COMMUNICATIONS

30.1. COMMUNICATIONS WITH OPGC

The Project Manager or his authorized persons (EIC) and OPGC EHS shall be the point of communication for all EHS issues arising under this contract.

30.2. COORDINATION WITH OTHER OFFICIALS

Contractor is fully responsible for coordinating with the proper authorities for moving heavy equipment, location of underground utilities, erecting barricades, traffic control, and other safety measures, unless otherwise specified.

30.3. COMMUNICATIONS WITH MEDIA RESTRICTED

In the event of an accident or other condition on site, contractor shall not communicate with the media or any other entity without the expressed consent of OPGC.

31. EQUIPMENT CERTIFICATION

The Contractor shall, at its own expense, ensure that all Portable electrical appliances, lifting equipment or other

equipments required inspection or calibration has been inspected/ certified by an authorized and a liable

inspection/certification authority/company prior to its use in the works.

32. RESTRICTED ARTICLES

The Contractor shall be required to ensure that written approval signed by OPGC contact person has been obtained

prior to taking dangerous items such as drugs, knives, radioactive, corrosive, poisonous or toxic materials onto

OPGC premises.

33. PROHIBITED MATERIALS

Contractor is strictly prohibited from using any of the following types of materials in performance of the work:

- Asbestos, Asbestos Containing Material (ACM).
- Mercury containing material.
- Surface coating systems that contain lead, cadmium, chromium, barium or mercury.

34. HAZARDOUS SUBSTANCES

- Before delivery of any hazardous materials to OPGC site, Contractor shall provide Material Safety Data Sheets for all anticipated hazardous materials.
- All containers containing hazardous materials must be clearly labeled indicating their contents and appropriate hazard warning information.
- > Hazardous materials must be stored in a secure location agreed with the **OPGC Contact person**.
- Don't dispose hazardous substances into drainage system and please inform any spill on the floor or on any personnel.

All operatives must understand the hazards of the materials they have to handle before use, some can be dangerous when used carelessly or when safeguards are overlooked. If in doubt, consult your own supervisor or OPGC Contact person for the relevant Hazard Data Sheet for specific health & safety information.

Hazardous waste must not be dumped in general waste bins and the hazardous waste bins are provided around the plant premises.

35. SMOKING

Plant premises are no smoking zone. Smoking is prohibited inside plant premises. Persons observed smoking inside Plant will be removed from job with immediate effect. Smoking is permitted inside declared/authorized smoking zone(s).

36. SUB CONTRACTOR

The Contractor should ensure that sub-contractors shall be responsible for safety requirements as specified by OPGC. The Contractor shall regularly check subContractor's compliance with safety requirements

37. LIFTING MACHINERY AND EQUIPMENT

37.1. LIFTING TACKLE (ALSO KNOWN AS LIFTING/ LOOSE GEAR)

Any item used to connect a load to the lifting appliance, but which is not in itself, capable to lift, lower, transport or suspend the load, such as; Chain, wire rope and webbing slings, Rings, links, hooks, shackles, eye bolts, swivels, blocks, snatch blocks, Beam clamps and plate clamps, Lifting beams, frames, baskets, Waste bins, tool boxes, cargo nets, containers, pallets, etc.

37.2. STANDARD REQUIREMENTS

- > All lifting tackle shall be tested and certified by approved competent person.
- > The Contractor shall make available, as necessary, any certificates and inspection records.
- > Lifting tackle shall not be issued or used without a current test certificate.
- All lifting tackles shall be visually inspected before use to identify any damage. Damaged or defective equipment shall be immediately removed from service.

- Only equipment, which has been properly tested and is clearly marked/labeled/coded, may be used. The SWL (Safe Working Load) or WLL (Working Load Limit) must be clearly marked on all equipment and must be adhered to.
- > Makeshift lifting devices formed from bolts, rods or reinforcing steel shall not be used.
- > Slings shall not be shortened with knots, bolts or other makeshift devices.
- Synthetic web slings shall be marked or coded to show the manufacturer, the rated capacities for each type of hitch and the type of material.

Synthetic web slings shall be immediately removed from service if any of the following conditions are present:

- Acid or caustic burns
- Melting or charring of any part of the sling surface
- Snags, punctures, tears or cuts
- Broken or worn stitches
- Distortion of fittings
- > No heavy loads or excessive strain may be placed on ropes.
- Rope should not be driven over, ground into cinders or mud, wrapped around sharp or abrasive objects or burned by "snubbing off" too fast.
- Wire ropes or wire slings, shall not be used for raising, lowering or as means of suspension if any fraying, kinking or broken wires are apparent.

37.3. LIFTING EQUIPMENT OR APPLIANCES

Is a generic term - "Lifting equipment "shall mean any machine, driven by manual or mechanical power which is able to raise, lower, suspend or transport loads and includes the supporting structure and all Plant, Equipment appliance, structures. This may include but not limited to Continuous mechanical handling devices (i.e. conveyors). Cranes (mobile, tower, pedestal, etc.), Wall/pillar cranes, derricks, Runway beams, pad eyes, gin pole and gin wheels Winches, hoist (air and electric), crabs, teller hoists, Powered working platforms, Elevators and Lifts, overhead cranes,

37.4. STANDARD REQUIREMENTS

- Lifting machinery and equipment shall be retested by an approved competent person after any major alteration or repairs thereto.
- > Lifting machinery and equipment shall not be issued or used without a current test certificate.
- EOT crane operation shall be carried out by personal with valid rigger certificate with familiarization to operate the EOT cranes.

- All lifting operations are to be suitably planned and carried out with trained and qualified personnel. It shall be the duty of the Contractor to ensure that allemployees under its control know and are able to apply hoist signals and their uses.
- One qualified person shall direct the rigging operation. This person shall give signals for the group. No crane operation will take place without an appointed and identifiable "SIGNAL MAN".
- All lifting equipment shall be visually inspected before use to identify any damage. Damaged or defective equipment shall be immediately removed from service.

Only equipment, which has been properly tested and is clearly marked, may be used. The SWL (Safe Working Load) or WLL (Working Load Limit) must be clearly marked on all equipment and must be adhered to.

- All lifting operation should be carried out in the barricaded area; no one should be allowed to walk underneath of suspended load.
- It is the Contractors responsibility to satisfy the OPGC Contact Person that all lifting equipment and machinery conforms to the relevant statutory provisions.
- All lifting machinery and equipment and all parts and working gear thereof, both fixed and mobile shall be of good construction, sound material and free from patent defect and shall be maintained and operated to comply with OPGC standards.
- > Every dangerous moving part of lifting machinery should be guarded.
- > The hoisting mechanism of a crane shall not be used for any purpose other than lifting a load vertically.
- Cranes shall not be used to transport loads, unless specifically designed for this purpose. The hook of a crane shall be secured to prevent it swinging when the crane is in "Transit".
- Mobile Jib Cranes, side booms and "A" frames shall not work in the vicinity of overhead Power lines unless a safe working distance of total Length of the Jib + 10 feet is maintained.
- Cranes with more than one ton lifting capacity shall be fitted with a safe working load indicator, and a crane capacity chart displayed inside the operators cabin.
- > Contractor shall not operate the cranes of OPGC without permission from OPGC Contact person.
- Critical lift plans must be developed by a qualified person, and then submitted to the OPGC Contact person for review and approval.
- Contractor shall designate a person to observe clearance of the equipment and give timely warning for all operations where it is difficult for the operator to maintain the desired clearance by visual means.
- Cranes with fixed or derricking jibs should be fitted with effective automatic safe load indicators which should be provided with appropriate visual and audible signals, Properly maintained and tested by a competent person after the erection or installation of the crane.

Vehicular equipment, if provided with outriggers, shall be operated with the outriggers extended and firmly set as necessary for the stability of the specific configuration of the equipment. Before lowering outriggers, the contractor must verify the surface is firm and will support the weight of the equipment and operation to be performed. The Contractor shall place outrigger pads if conditions require.

While extending, lowering outriggers and retracting the outriggers, the operator shall visually inspect the area to verify it is clear of all personnel and obstacles.

Instructions issued by the manufacturer, specifying weather and wind speed conditions which would be likely to affect the safety of the operation, lifting appliance should either not be used or used subject to limitations, should be followed.

37.5. MULTIPLE LIFTS

The simultaneous use of more than one lifting appliance to raise, suspend, support or lower a single load should be avoided. Where the simultaneous use of more than one lifting appliance is unavoidable; contractor shall perform the lifting only with OPGC approved Risk assessment, Method statement and Rigging plan.

37.6. PERSONNEL BASKETS AND MAN HOIST

- Personnel baskets should be of good design construction, sound material, and adequate strength, free from obvious defect and certified and clearly marked with the maximum number of persons permitted.
- Where a man hoist is operated by means of a winch, or where person is carried in a cage, skip or similar plant or equipment designed to lift persons, the winch should be so constructed that the brake is automatically applied at all times except when the controls are in the operating position.
- No winch should be fitted with a pawl and ratchet gear on which the pawl has to be disengaged before the platform or cage can be lowered.

37.7. INDUSTRIAL FORK LIFT

- Industrial fork lift trucks shall not be used to lift a load greater than the maximum safe working load permitted for the truck.
- Passengers are forbidden to ride on vehicles, mobile plant or forklift trucks not specifically designed or fitted out for passengers use.
- The Forklift operator shall have a valid operating certificate from a recognized authority and a valid OPGC driving license.

37.8. CONTAINERS

- Every container for raising, suspending, supporting or lowering articles, tools, equipment, and other materials should be of good construction, sound material, and adequate strength, free from obvious defect and suitable for the purpose for which it is required.
- Provided with adequate and suitable arrangements for securing the container to the lifting appliance or to lifting gear, as appropriate;
- Marked with its tare weight and the weight of the load which it may carry with safety;

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So constructed as to prevent the accidental displacement of its load.

Loose materials or articles that could be displaced should be secured or covered to prevent such displacement.

38. HAND TOOLS

- > Tools shall not be placed on any type of energized equipment or where a tool might fall and become a hazard.
- Unacceptable placement includes on ladders, stairs, railings, mobile equipment, lying on the floor, on the scaffold, in walkways or cluttering work benches.
- > Tools shall not be placed next to open trenches, manholes or vault openings.
- Tools, materials and parts used in elevated work locations shall be tied in place or kept in containers secured so that nothing can accidentally fall.
- \blacktriangleright Select the right tools for the job.
- Train your workers to select the right tools for each job, and ensure that the tools are available.
- ▶ Inspect the tool and ensure that it is in good condition and keep it in good condition.
- Unsafe tools include wrenches with cracked or worn jaws; screwdrivers with broken tips, or split or broken handles; hammers with chipped, mushroomed or loose heads and broken or split handles; mushroomed heads on chisels; dull saws; and extension cords or electrical tools with broken plugs, improper or removed grounding systems, or split insulation.
- \blacktriangleright Use all tools correctly.
- \blacktriangleright Keep tools in a safe place.
- Carry the tools to and from the work site in a tool box, cabinet, or other appropriate tool holder or pouch.
- \blacktriangleright Store the tools in the proper storage area.
- Tools should not be carried up or down ladders by hand. Appropriate pouches shall be used. Where pouches are not available, tools shall be lifted and lowered by hand lines.
- Tools should not be thrown from one level to another, nor should they be thrown from one location to another on the same level.
- Spark proof tools should be inspected regularly to ensure that there are no steel splinters.

39. PORTABLE ELECTRICAL APPLIANCES.

- > All appliances should be tested and identified; records of test/re-test dates should be available.
- Equipments which do not have the test detail label will not permitted inside OPGC Premises.

Any equipment which is in poor condition will not be permitted inside the OPGC premises.

- Where any portable hand tool requires a supply above 110Volts A.C obtain permission from your OPGC Contact Person. If permission is granted, a residual current device (RCD) mustbe connected in the circuit.
- Joining of cable is allowed only with industrial male and female sockets of IP67 rating. No twisting or taping of conductors is allowed.
- > Bare cable/ conductors shall not be inserted to sockets.
- > Contractors must ensure that electric equipment connected by cord and plug in good condition.
- Each employee must be properly trained before using tools or equipment requiring special instruction or training (e.g., power tools, vacuum equipment, etc.).
- Extension cords used with portable electric tools shall be of the 3-wire type unless the tool or appliance is double-insulated or operated from an isolated power service. The ground wire must either be permanently connected to the tool frame for grounding means.
- Extension cords lay across walkways or driveways must be covered by protection or warning devices to prevent pedestrian or vehicle hazards.
- > Ground Fault Circuit Interrupters (GFCIs) are to be used whenever a portable electric tool is used.
- > Electrically-powered tools may not be used on energized conductors.
- > Compressed air hose connections shall be secured with a safety clip or retainer before use.
- If a machine guard is removed in order to work on equipment, it shall be replaced before the equipment is placed back in service. Lockout/Tagout procedures shall be followed.
- > Power tools should be used, in accordance with the manufacturer's instructions.
- > Where sparking or heat generated by the use of pneumatic tools, an approved coolant shall be used.
- Only patent pneumatic hose, couplings and fittings of the correct rating shall be used when using pneumatic tools.

40. TEMPORARY WIRING

These provisions apply to temporary electrical power and lighting wiring methods. Temporary wiring shall be removed immediately upon completion of construction or the purpose for which the wiring was installed.

40.1. TEMPORARY POWER PROGRAM PROCEDURES

- i. Only authorized and qualified people for electrical work shall work on the installation, wiring, troubleshooting or repair of electrical equipment.
- ii. All persons dealing with & handling electrical equipment shall be trained to apply the correct treatment for electric shock.
- All portable tools, hand lamps & other apparatus must be connected to the system by means of appropriate rating plugs & sockets type.

- iv. All joints must be both electrically & mechanically sound. No twisting of conductors or tapping is permitted.
- V. Supplies to welding equipment must be specially arranged & the connections must be sufficient in size for the duty to be performed & properly protected against mechanical damage & electrical hazards.
- vi. All lamps for general illumination shall be protected from incidental contact or breakage. Metal-case sockets shall be grounded. Damaged cages/lamps shall be corrected upon notice.
- vii. Temporary lights shall not be suspended by their electric cords unless cords and lights are designed for this mean of suspension.
- viii. Portable electric lighting used in wet and/or other conductive locations, for example drums, tanks, and vessels shall be operated at 24 volts or less. However, 120 volt lights may be used on approval if protected by a GFCI.
- Flexible cords and cables shall be protected from damage. Sharp corners and projections shall be avoided.
 Flexible cords and cables may pass through doorways or other pinch points, if protection is provided to avoid damage.
- X. Extension cord sets used with portable electric tool and appliances shall be of three-wire type and shall be designed for hard or extra-hard usage. Flexible cords used with temporary and portable lights shall be designed for hard or extrahard usage.
- xi. Electrical equipment shall not be opened, adjusted, repaired, or otherwise handled until it is de-energized and locked-out according to the lock-out policy.
- xii. De-energized equipment shall be tested before anyone works on it.
- xiii. All metal panels, boxes, covers, conduit, etc., that are part of electrical system shall be grounded.
- xiv. All splices and repairs shall be made inside an approved box or approved splice kit. Tape alone is not acceptable.
- xv. Metal ladders shall not be used for electrical work.
- xvi. All electrical equipment that is exposed to flammable gases or vapors, combustible dust, or ignitable fibres must meet hazardous location requirements in order to prevent explosions.
- xvii. Extension boards must have GFCI/RCCB protection with main power on/off switches. GFCI/RCCB should not be used as power on/off switching. xviii. Circuit breakers that protect hand tool receptacles shall have a maximum rating of 20 amps. Waterproof connectors shall be used as necessary.
- xix. All holes in panel boxes and gaps where circuit breakers are missing shall be securely plugged with a fireproof material.
- **xx**. Circuit breakers shall be matched as closely as possible to the electrical needs they supply.

41. FALL PROTECTION

All persons, on any project that requires them to wear a personal fall arrest or restraint system, will follow these guidelines. A full body harness will be used whenever there is the potential for a fall from a height of 6 feet or more.

41.1. PERSONAL FALL ARREST SYSTEMS (PFAS) & FULL BODY HARNESS:

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A personal fall-arrest system is generally required whenever an individual is at risk of falling 1.8 meter or 5.9 ft or more ft from an elevated position. A properly designed system should include three components:

- A. An **anchor point** capable of supporting a minimum of 5,000 lbs (22.2 kN) per attached worker; will serve as a secure connection point for lifelines, lanyards or deceleration devices.
- B. A **full-body harness** designed to distribute fall-arrest forces over thighs, pelvis, waist, chest and shoulders; if a fall occurs, D-ring located in centre of the back will hold worker in an upright position until rescued.
- C. A **connecting device** such as a lanyard, deceleration apparatus, lifeline or a combination of these items with locking snap hooks. Must have a minimum breaking strength of 5,000 Lbs.

WARNING:

The maximum arresting force an individual is permitted to sustain while wearing a harness is limited to 1,800 lbs (8kN). To stay below this impact force, workers should keep the free fall distance as short as possible (max. 1.8 meter) and consider the use of deceleration devices or shock absorbing lanyards. During fall, the worker shall not come in contact any lower level and bring the worker to a complete stop and limit maximum deceleration distance an employee travels to 3.5 feet (1.07 m).

Each worker shall be attached to a separate lifeline and lifelines shall be protected against being cut or abraded.

FULL BODY HARNESS APPLICATION GUIDELINE-

Deceleration apparatuses (shock absorbers) attached double lanyard type harnesses shall be used only at height with fall distance of 6 meter or more.

For fall distance of less than 6 meter or more than 06 meter, self retractable type full body harness shall be used.

Full body harness after one free fall shall not be used again, it shall be condemned.

Harness shall be checked/ inspected for wear/tear or any damage before use.

41.2. ANCHORAGE CONNECTORS AND POINTS

An anchorage connector or point must be capable of supporting 5000lbs. per attached worker. This can be accomplished in a number of ways and must be engineered to ensure the point has that capability.

Only anchorages designed by a fall protection equipment manufacturer must approved by OPGC. Anchorage Points in concrete or attached to wooden structures must be approved by both the Contractor's Qualified Person & EIC.

The anchorage point must be installed at dorsal D-ring (shoulder) height or higher. An anchorage point at feet level is unacceptable for fall arrest application and will not be allowed.

41.3. AUTHORIZED FALL PROTECTION SYSTEMS/EQUIPMENT

Only fall protection equipment approved by the OPGC will be used on OPGC projects.

STORAGE

The equipment should be stored and hung up freely by the back D-ring in a cool, dry place until needed. If materials appear to be faded or it tags and labels are illegible, consult the equipment manufacturer to determine if replacement is necessary.

41.4. TIPS FOR FALL PROTECTION

- Make sure the harness fits snugly. Tighten all straps.
- Use an anchorage point above your head. Do not tie-off at your feet unless there is no other place to tie-off.
- Use two lanyards for 100% tie-off. One lanyard must be attached at all times and when moving from position to position.
- Never hook two lanyards together to get extra reach.
- Except with specific lanyards, hooks may not be tied back into the lanyard itself.
- Use cheaters only when your lanyard will not reach a tie-off point. Cheaters will not be used while tied off to the inside of a man basket.
- Shock absorbing lanyards may not be used in conjunction with retractable lanyards.
- Never tie a knot in your lanyard to reduce its length

41.5. ACCESS

Stairways and stair towers with complete hand and guardrails do not require fall protection.

Fall protection is not required while using a ladder as a means of access as long as the climbing distance is less than 10 feet. Once a worker has climbed 10 feet a ladderclimbing device is required or an enclosed cage must be present. If the worker stops at any point to conduct work from a ladder, and the worker's feet are more than 6 feet above the adjacent surface, fall protective equipment is required. A three-point contact must be maintained with a ladder regardless of the height a worker is above an adjacent surface.

42. SCAFFOLDING

All scaffolds and staging shall comply with OSHA standards. Prior to using any scaffolding, it shall be approved by OPGC. A "GREEN SCAF-TAG" indicating OPGC acceptance will be attached to the scaffolding, the scaffolding is not to be used until the approval is given. The scaffolding shall meet the following minimum requirements:

- > Timber uprights and ledger shall not be used.
- > Metal parts used for scaffolds shall be in good condition and free from corrosion.
- All poles, planks and general materials, used for scaffoldings, shall be kept in good condition and be inspected by a competent person appointed by the Contractor on each occasion before being used for erection.
- > No materials, other than those specifically designed for the purpose, shall be used for scaffolding.

- A scaffold shall be erected only by men trained and certified in the job, working under the immediate supervision of a competent foreman, who knows the purpose of the scaffold and how it should be constructed to carry the loads which will be placed upon it.
- Scaffolds shall be securely supported or suspended and where necessary braced to ensure stability. Unless constructed as an independent scaffold, it shall be rigidly connected to the building or structure.
- In the case of partially erected or dismantled scaffolds still capable of being used, access thereto should be effectively blocked and prominent warning notices shall be posted with a "RED SCAF-TAG".
- All platforms, scaffolds and other workplaces, from which persons may fall more than 1.8m (6 ft) shall have edge protection which consist of an upper rail not less than one meter (3 ft 3 inches) in height above the walkway and have at least one intermediate rail.
- > Toe boards shall be fitted to all scaffolding.

When permanent hand rails have to be removed from elevated platforms, rope or wire hand rails shall be fitted in their place.

- Any load-bearing scaffolding should be constructed to a design previously submitted to and approved by an OPGC contact person.
- Parts of staging, tools and other articles and materials shall be properly lowered and shall not be thrown down from a height. They shall be raised by rope or other suitable means and not carried on the person.
- The Contractor's Representative shall ensure that no loose articles and materials are left lying about in any place from which they may fall on persons working, or passing beneath.
- > While erecting the scaffolding a RED SCAFF-TAG need to be hung until erection is finished

42.1. REQUIREMENTS FOR BOARDS AND PLANKS

- Boards of 51 mm (2 inch) minimum thickness shall be used. These shall be at least 210 mm (8 inches) wide.
- The spacing of board supports shall depend on the thickness of the boards used and the load to be carried. There shall be at least three supports. Support for 51 mm (2 inch) boards shall not be more than 2.5 m (8 feet 6 inches) apart. All boards shall be supported at the ends.
- Boards shall be end-butted and close boarded throughout. Overhanging of boards of any thickness shall not exceed four (4) times their thickness and not less than 50 mm.

42.2. WORKING PLATFORM

- All working platforms should be close boarded and all boards should be lashed or secured.
- ➢ Widths of platforms vary according to scaffolds purpose.
- As a general rule, if the platforms are to be used only as a footing, they shall be at least 610 mm (24 inches) wide. If small quantities of materials have to be put on them, the platform width shall be increased to 813 mm (32 inches) wide.

42.3. MOBILE TOWER

- > The height of a mobile tower should never exceed three times the length of the shortest side.
- > There should be only one working platform on a mobile tower.
- > Mobile scaffolds should only be used on ground which is firm and level.
- > Moving the tower should only be done by pushing or pulling the base.
- > The working platform must be clear of men and materials when the tower is being moved.
- > Wheels should be turned outwards and brake must be on and locked before use.
- > It is advised to tie the tower to the structure whenever possible.
- > Never ride on a scaffold that is being moved.

42.4. INDEPENDENT TOWERS

- The tubular scaffold used most often is the independent tower. The independent tower apart from necessary ties stands completely free from buildings or structures and is used mainly for access pipe bridges or high maintenance jobs where only a small working area is required.
- > The foundation must be capable of carrying the weight of the tower, equipment and men.
- Base plates must be placed under all standards and if there is any danger of lateral movement they must be securely fixed, substitutes must not be used.
- > Special precautions must be taken to provide stability on soft soil, or surfaces likely to be damaged.
- Standards must be vertical and joints must be staggered. The distance between standards must be no more than 2.5 m (8 feet 6 inches).
- > Ledgers must be horizontal and fixed to the standards with load bearing clips.
- Generally ledgers will be vertically spaced at about 2 m centers for easy erection; also providing ample headroom if an intermediate working platform is required.
- Diagonal bracings must be fitted on all lifts on all sides and a cross bracing should be fitted at the base and at other levels where necessary to keep the tower rigid, but at least every alternative lift.
- > If the height of the tower is more than 3 1/2 times the length of the shortest side it must be adequately tied.
- ▶ It is good practice to tie scaffolds to the adjacent structure whenever possible irrespective of height.

42.5. LADDERS

- All ladders used in the plant except in scaffoldings shall be made of Glass Reinforced Plastic (GRP) / FRP. No metallic / wood ladders are allowed in OPGC premises.
- > Shall be factory made and shall be of sound construction.
- > No ladders with treads nailed to the stringers or which are in any other way faulty or unsound shall be used.

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- > Unless OPGC has granted prior written consent no ladder shall exceed 3.7 m (12 ft) in height.
- > Ladders shall not be painted. Clear varnish or polyurethane is acceptable.

All ladders shall only be used for the purpose for which they were designed.

- The Contractor shall ensure all ladders under their control are inspected for safe, clean and proper working parts before they are used.
- > Defective ladders shall not be used, but instead shall be tagged and made inaccessible for use.
- Ladders should be placed upon a level, firm, solid and safe base and leaned against or hung from a solid, safe structure.
- When it is necessary to place a ladder on a non-level, smooth or slick surface, the base of the ladder shall be tied, blocked in place or held by another worker.
- The base of a straight or extension ladder shall be placed back from the wall at a distance equal to one-fourth of the ladder's working length.
- > The top of an extension ladder shall be tied off when possible.
- > No one shall go up or down a ladder without the free use of both hands.
- > If material must be lifted, a hand line must be used.
- > Employees shall face a ladder while ascending or descending.
- A ladder used to transfer to a landing must have side rails that extend at least 3 feet above the landing.
- > Contractors shall ensure employees under their control are properly trained in ladder safety.
- Where ever the chance hitting ladder with moving traffic or some other equipments exists, adequate protections to be provided with warnings

43. ACCESS TO TRANSFORMERS/SWITCH GEAR ROOMS/SWITCHYARD AND OTHER RESTRICTED AREAS

Contractor will remain outside of all fenced electrical transformer, switchgear rooms, switchyard or any other high voltage areas and restricted areas unless authorized by the OPGC Contract person to enter. If it becomes necessary to enter these areas, the Contractor must notify the OPGC Contract person so that arrangements can be made to secure a safe work area.

44. FIRE PROTECTION:

Fire hydrants, extinguishers, hose racks, and other emergency equipment shall not be covered or blocked and fire equipment lanes must always be kept clear.

All fires must be investigated and reported to OPGC regardless of duration or extent.

All contractor persons should know the method of raising alarm & operation of first aid fire fighting appliances. Nobody should misuse the fire appliances, extinguishers etc.

45. HOT WORK

Any activity which involves naked flames or can produce heat energy or spark shall be considered as Hot Work. e.g. Welding, Burning, Grinding, Cutting.

- > The Contractor must coordinate hot work activities with the OPGC Contact person.
- All welding, burning, or other hot work will be carefully planned and safely executed by completion of a Hot Work Permit from OPGC.
- Welding machines and its accessories must be approved type & safe to use. Power supply cable should be of proper rating, joint free, copper and cut resistance type.
- When 'Hot Work' is in progress precautions must be taken as per the Hot Work Permit issued by OPGC to minimize the risk to other persons, particularly from fire.
- Appropriate fire extinguishers shall be made available for the duration of the specific activities as mentioned in the Hot Work permit.
- > The Contractor shall provide fire watches during hot work activity & shall ensure firewatchers are trained on the use of fire extinguishers and other appropriate fire fighting gear. Fire watchers during fire watching cannot be assigned with other task.
- The Contractor shall ensure that firewatchers are equipped with appropriate equipment and dedicated only to the duties of the fire watch.
- The Contractor shall ensure that adequate guards and barriers (fire blanket, fire proof sheets) are used to ensure sparks and hot slag are confined to the immediate area and do not contact flammable or combustible materials.
- All open areas and floor grating/ wall openings shall be protected so that sparks or slag cannot reach flammable or combustible materials at any lower level.
- Hot work areas must be barricaded to prevent people from coming into contact with sparks and slag from hot work activities.
- The Contractor must store flammable and combustible chemicals where they are not subject to hot work or other sources of ignition.
- ➢ Use appropriate PPE for the job.

46. CONFINED SPACES:

A *Confined Space* is any space of an enclosed nature which is not designed for continuous human occupancy and presents a risk of death or serious injury from hazardous substance or dangerous conditions.

> The Contractor must coordinate Confined Space Entry work activities with the OPGC Contract person.

Confined Space Entry Permit shall be obtained to enter any Confined Space for any kind of work inside.

- Contractor shall perform no duties that might interfere and disturb the accepted safe working conditions in a confined space.
- > Contractor shall maintain all safety barriers around the *Entry Point*.
- > Appropriate PPE as per the Confined Space Entry Permit shall be used.
- Appropriate dust mask shall be worn by the *Entrant* if significant quantities of dust are present within the *Confined Space*.
- Head and eye protection shall be worn at all times by the *Entrant* unless specified otherwise by the *Control Room Engineer*.
- A body harness may be required by the *Entrant* if work is to be performed above ground level. An air purifying respirator and cartridge or Self Contained breathing Apparatus (SCBA) shall be used by the *Entrant* if *Entry* into a *Confined Space* containing a *Hazardous Atmosphere* is required and it is not physically possible to entirely remove the *Hazardous Atmosphere*.
- > Contractor shall use the safety equipment as per the Confined Space Entry Permit.
- Fire extinguishers suitable for the type of fires those are appropriate to the hazards that may be present in the Permit Required Confined Space.
- Contractor shall deploy trained Confined Space Watcher/Hole Watcher to take control over the Confined Space entry & exit points during the period of work. Confined space opening either will be closed or entry prohibited through warning tape or barrier while no work is taking place inside the confined space. Contractor will not assign task other than Confined space watching to the watchers as long as they are performing the watching.
- > Contractor shall comply strictly with the following Electrical safety precautions
- Electrical equipment supplied from the mains should only be used where there are no practicable alternatives. Battery powered electrical equipment or pneumatic powered equipment shall be used whenever possible.
- If there are no practicable alternatives to using electrical equipment supplied from the mains, then they should be 24V. If this is not possible then they should be 110V supplied through a centre tapped transformer with the centre tap earthed.
- Electrical equipment supplied from the mains should contain Ground Fault Circuit Interrupters / Residual Current Devices.
- > Electrical equipment supplied from the mains shall have a valid test certificate.

47. HIGH PRESSURE WATER/ SERVICE AIR CLEANERS

Improper use of water jets/ Service Air can cause serious injury. The contractor may only use high pressure washing apparatus with the permission of the OPGC Contact Person.

The contractor must satisfy the OPGC Contact Person as to the training of the operators, the arrangements for the place of work and a safe system of work.

48. SCRAP/WASTE DISPOSAL:

Waste Bins are provided on site for General Housekeeping materials, metal scrap, Hazardous and Oily wastes and Chemical Wastes. Special or Hazardous Materials must not be dumped in general housekeeping bins and metal scrap bins. Please consult with OPGC Contact person for more details.

49. GAS CYLINDERS

The following regulations apply to all industrial transportable gas cylinders including containers for dissolved acetylene.

49.1. CYLINDER IDENTIFICATION

Gas cylinders shall be colour coded in accordance with relevant BIS code or applicable Gas Cylinder rule.

Full and empty cylinders must be clearly distinguished and stored apart.

49.2. STORAGE OF CYLINDERS

- No flammable materials shall be stored on the site with them, or in the immediate vicinity. Cylinders must be kept at a safe distance from any heat source.
- > Cylinders shall be stored in such a manner that they can be readily removed in the event of fire.
- > They shall be adequately secured to prevent falling over.
- > Cylinders shall be stored vertically and secured.

49.3. HANDLING AND MOVEMENT OF CYLINDERS

- > Cylinders shall not be subjected to rough usage, or excessive shock, or used as rollers, or supports.
- > Cylinders shall not be dropped from a height.
- A proper carriage, or platform and not a sling, shall be used for moving cylinders, whether empty or full.
- When cylinders are being transported, they shall be loaded and firmly wedged to prevent violent contact when the vehicle moves.
- On no account shall cylinder trolleys be towed by motor transport. The transportation of any gas filled cylinder shall always be in a proper rack, regularly maintained and properly inspected at least biannually.

The Contractor shall ensure that cylinders with faulty valve joints, immovable valve spindles, or valve leakage are immediately removed from the site.

- > Only standard valve keys shall be used.
- > Only standard automatic pressure regulators and pressure gauges shall be fitted to cylinders.
- Regulators and gauges shall be checked to ensure they are functioning properly and damaged gauges or regulators shall be removed from service.
- ▶ RED hose shall only be used for Acetylene and BLACK hose shall be used for Oxygen and Nitrogen.

- Hoses shall be pressure tested and examined to ensure that they are free from cuts, cracks, burns and excessive wear.
- > Only secured hose connectors shall be used.
- > It is strictly prohibited to bind hose connections with wire.
- > All Oxy-acetylene sets which are portable shall be wheeled on a trolley.
- > When not in use, blow-pipes and hoses shall not be left in confined spaces or enclosed areas.
- Where this cannot be done, the Oxygen and Acetylene connections shall be disconnected at the cylinders situated outside. Merely closing the valve is not a disconnection.
- Empty cylinders and cylinders no longer required shall be removed from the Site as soon as practicable, caps shall be in place.
- Flashback arrestors (ESAB or any other ISI approved type) shall be fitted at the outlet of the regulator and at inlet of the cutting torch.
- > When not in use, all cylinders shall have protecting caps screwed on.
- Cylinder valves shall be closed immediately when gas is not required, or when the cylinder is empty and the hose depressurized.

50. RADIOGRAPHY AND RADIO ACTIVE SUBSTANCES

- Radiography shall be done only after achieving a valid safety document. Proper barricading of the area and paging on the loud speakers should be done
- All operations involving the use of radioactive substances shall be supervised by the Contractor to ensure that protective measures are properly maintained and to check the extent of the protection afforded in practice.
- The Contractor is required to provide OPGC with a list of radioactive sources held by the Contractor and all employees who use or store these radio-active sources on OPGC's property.
- The Contractor shall be responsible for the supply, operation and regular testing of all necessary monitoring equipment and to ensure that all protection barriers

are placed and altered as a result of survey radiation level readings in accordance with internationally acceptable levels.

- All radioactive substances not in use shall be kept securely in a dedicated storage place. The storage place should be clearly marked with the warning sign and the wording: "DANGER RADIOACTIVE MATERIAL" in clear and indelible print. Its access hatch or door should be provided with a lock, the keys of which should be kept by the authorized radiographer.
- > Only authorized personnel should handle radioactive sources.

- Before any radiography work is started, the Contractor shall be required to establish procedures dealing with accident/incidents and foreseeing an emergency.
- > The procedure shall clearly define responsibilities and actions/measures to be implemented.
- > The emergency procedures shall be submitted to OPGC Contact person for review and approval.
- > The Contractor shall also ensure that all personnel involved have been carefully instructed.
- **50.1.** During transport, radioactive substances should be kept in sealed sources for radiography with the exposure container should be kept inside a lead-lined box which has the radiation warning sign on the outside.

50.2. HANDLING PROCEDURE AND PERSONAL PROTECTION

>Keep maximum distance from the source.

- Provide maximum shielding
- ➢ Keep exposure time down.
- > A radiography permit shall be obtained on each occasion radiological work is carried out.
- A barrier shall be erected around each area where the source is exposed so that the level of radiation at the barrier does not exceed 0.75 Micro Seiverts per hour in air.
- Suitable warning notices for display at barriers shall have the wording "RADIATION DO NOT ENTER". The notices shall also include the radiation symbol.
- > All persons using radioactive substances shall be trained and certified in the use of such substances.
- > The perimeter of the area shall be patrolled during the period of source exposure.
- An exposed source must be immediately returned to its safe container on the request of the operating personnel, or in the event of a fire or other emergency occurring

Any worker liable to be exposed to ionizing radiation shall wear on the appropriate part of his body a film badge to measure the amount of radiation accumulated.

51. EXCAVATION

- The Contractor shall ensure that no Excavation work shall be carried out without the issue of an appropriate Safety Document.
- Any buried cables or pipelines unexpectedly encountered during excavation work shall be reported immediately to the OPGC Central Control Room and the work shall cease.
- Where, because of the nature, shape and slope of the excavation, material is liable to fall more than 1.3 meters (4 ft.) onto a person working, the sides of the excavation must be adequately shored.
- Shoring shall be rigid and without holes or opening, and be properly braced with support structure.
- The shoring of every excavation where men are to work shall be examined each day by the Contractor's Representative.

- Excavated earth shall not be stored close to the trench edges and a minimum distance of at least one and a half times the depth of the trench shall be observed.
- No load, plant or equipment should be placed or moved near the edge of any excavation where it is likely to cause the collapse of the side of the excavation.
- Excavations in which persons are working and into which a person is liable to fall shall be suitably or protected by a barrier.
- If the excavation is to remain open after dark, warning lights shall be placed around the excavation to warn others of its presence.
- Temporary crossings over the trench shall be at least 609 mm (2 feet) wide and sufficiently strong with a railing on one side.
- The Contractor shall be responsible for the provision of all barricades, roping off and the provision of flashing lights as is required for the safety of persons and vehicles.

52. SURPLUS MATERIALS

Unless otherwise directed through written instructions issued by OPGC, Contractor shall promptly remove all excess surplus material from the jobsite. Final payment for performance of the work shall not be due and payable until such materials are removed from the jobsite. If surplus materials are not removed from the job site within fifteen (15) days of completion of the Work, OPGC may dispose of the materials and offset the cost associated with disposal against the unpaid balance of the Contract Price.

53. SUSPENSION OF WORK AND LIMITATION OF LIABILITY

OPGC reserves the right through the project contact to suspend all or any portion of the work being performed in violation of these provisions. OPGC shall not be liable in contract, tort (including without limitation negligence and strict liability) warranty or under any other legal theory for damages, costs or expenses related to any suspension or stoppage of work, loss of business, or other special, incidental, consequential or punitive damages in connection with any failure on the Contractor's part to establish, enforce, or adequately monitor its Health and Safety Program.

54. TEMPORARY BUILDING:

Temporary buildings and material storage areas shall only be allowed upon written approval of the concerned Project Manager/EIC. They shall not be set up under power lines or pipe ways.

55. UNSAFE AND/OR INAPPROPRIATE BEHAVIOR, DICIPLINARY ACTION

Any Contractor employee who appears unable to perform his job in a safe manner or exhibits any type of behavior inappropriate for the work place will be reported to the Contractor's on-site supervisor for evaluation and possible removal from the site. OPGC will not tolerate at any time any conduct that threatens, intimidates or coerces an OPGC

person, another Contractor or any member of the public.

55.1. DISCIPLINARY ACTION AND PENALTY AGAINST SAFETY RULES VIOLATION

- > Unsatisfactory safety performance will go against the contractor in future bids.
- > OPGC reserves the right to even terminate unsafe Contractor from Contract with notice.
- > In addition to the above disciplinary action, additional penalty for Safety Violation shall be applicable.
- The penalty system is divided into two categories, Minor and Major. OPGC EHS shall decide about the minor or major safety penalty based on type of violations & risk involved with the violations

55.2. EXAMPLES OF SAFETY VIOLATIONS

- Not wearing / improper wearing of personal protective equipment (PPE) as per OPGC PPE rule. Example-Safety Shoe, Helmet, Safety glass, Earplug, Hand gloves and other PPEs.
- Using grinder without wheel guard
- > Taking electrical connection without using ELCB.
- Using damaged welding cable, faulty joints in cable
- Non-use of flash back arrester in oxy acetylene cutting set
- > Non availability of standby person (hole watch) on man hole during entry into
- Confined space

Not responding to emergency sirens as per emergency handling procedure.

- ➢ Working overhead on road/ pathway without barricading
- Dumping excavated earth on edge of excavation
- > Non-reporting of Near Miss, accident, fire and/or explosion and property damage incident.
- Improper housekeeping. Leaving work area with debris/ waste/ scrap material haphazardly
- ➢ Unauthorized disposal of hazardous substance (waste Oil, Grease, Chemical, Toxic Substance)
- Leaving excavated soil on road
- Spillage of waste on roads & work places

- Smoking inside plant premises.
- ▶ Unauthorized carrying of weapon inside Plant Premises. □ Working without valid work permit.
- Not complying with written instruction on the work permit
- ➤ Working without Job Safety Analysis(JSA) for high & medium risk jobs
- ➤ Working without Job Safety briefing for high & medium risk jobs □ Not providing fire extinguisher for hot work and fire watch.
- > Use of none testing/ certified lifting machine, tools and tackles
- Use of substandard scaffold (such as substandard platform in terms of access, guard rail, toe guard & gaps on platform surface, non-use of soleplate/base plate, sagging scaffold etc.)
- ▶ Use of above 24V light fittings in confined space without approval
- ▶ Working above 5.9 ft height without fall protection
- Working without rigging & slinging safety measure
 Persons working under suspended load in barricaded area Abuse of safety equipment/ facility/ emergency equipment.
- Blocking access of emergency equipment or exits.
- Mishandling of gas cylinders
- > Handling & disposal of hazardous substances in unauthorized manner.
- ▶ Violating OPGC any of the environmental guideline attached in separate sheet.

The following penalties shall be imposed on the contractor with the charge of safety violation by OPGC and shall be deducted from the Contractor's running/ final bill. Penalty can be imposed by E-I-C/Dept Heads &Tls/ Safety Officer/ EHS Manager/Safety Rovers or any officer authorized by the OPGC management.

- > For first instance of Safety rule violation, counseling and verbal warning with punching of blue spot on I Card
- On observation of second instance of Safety rule violation, counseling and strong verbal warning with punching of yellow spot on I Card
- On observation of 3rd Safety rule violation, punching of red spot on I Card with duty suspension or permanent removal from site
- For major Safety Violation for one instance also, there may be direct punching of red spot in I card with permanent removal/ termination of the Contractor employee(s) responsible for that violation.
- Inadequate Safety Supervision leading to repeated minor or medium risk type safety violation- Fine/Penalty of Rs.5000/- (Rs. five thousand only) and I card punching of responsible contractor Supervisor.
- Inadequate Safety Supervision leading to repeated major risk type safety violation- Fine/Penalty of Rs.10000/-(Rs. ten thousand only) and I card punching of Contractor Supervisors with suspension or even termination of

responsible contractor supervisor. It can also be increased depending on the seriousness of the safety violation. It will be decided after joint discussion of EHS & concern EIC which can be maximum up to 0.5% of work order value.

56. GENERAL GUIDELINES FOR ENVIRONMENTAL PROTECTION

The Contractor shall pay due regard to the environment by acting to preserve air, water, human life, animal and plant life from adverse effects resulting from its work or operation and to minimize any nuisance which may arise from such work or operations.

- 1. Uncontrolled releases of OPGC regulated materials, hazardous wastes, special wastes, and PCB or PCB contaminated materials from OPGC locations into the environment are prohibited.
- 2. All spills of OPGC regulated material, hazardous waste, special waste and PCB or PCB contaminated material must be cleaned up and waste residues generated disposed of properly. Planning must begin immediately and clean up must be initiated within 72 hours of discovery of the spill.
- 3. Use of PCB (Poly Chlorinated Biphenyl) containing products/ materials is prohibited.
- 4. Used oil & lubricants generated during work shall be collected in containers provided with lid and shall be placed at designated transit storage shed. This shall be subsequently sent to warehouse for storage in the designated shed in front of Store Shed No. 3 and final disposal to authorized recyclers / re-processors. Waste oil/lubricant spilled on the floor shall be contained and collected by the use of spill protection kit.
- 5. Used lead acid batteries shall be sent to Warehouse for storage at designated shed and final disposal to authorized recyclers / re-processors. Spilled lead acid shall be contained and collected by the use of spill protection kit. New lead acid batteries shall be procured against return of damaged used batteries to Supplier.
- 6. E- Wastes and used Ni-Cd batteries, fluorescent lamps, mercury vapour lamps are also treated as hazardous materials. These are to be collected and stored in identified places on impervious floor and under shed to avoid contamination. These shall be disposed in authorized manner.
- 7. Oil contaminated scraps, cotton wastes and other oil contaminated wastes shall be collected in specified collecting bins (designated as oil contaminated waste collecting bin) that are to be kept near work area and shall be sent to Warehouse for storage in specified collecting bin and final disposal to authorized recyclers/reprocessors, if possible. Otherwise the wastes shall be disposed off by warehouse in lined impervious covered pits.
- 8. Onsite work areas shall not be stored with improper and/or excessive amounts of scraps and debris.
- 9. Lead waste & other Non-ferrous metal wastes like, zinc, brass, copper, nickel and electronic wastes etc shall not be thrown around. It shall be collected in collecting bins and sent regularly to warehouse for storage in designated bins/shed and final disposal to authorized recyclers/re-processors.
- Spent Resins shall be collected in barrels, provided with lids and shall be disposed as per authorized disposal means.
- 11. Acid/alkali / any other hazardous chemical contaminated scraps/wastes shall be collected in designated collecting bins to be placed near the work area and shall be returned to Warehouse for storage in designated collecting bin and final disposal to authorized recyclers/re-processors or else, these scraps can be disposed of by Ware House in Page 167 of 206

lined impervious covered pits. Similarly, acid/alkali/ any other hazardous chemical contaminated barrels/jars shall be returned to Warehouse for disposing it back either to the supplier (as per the condition of Purchase Order) or to the authorized recyclers.

- 12. Materials that yield Hazardous Substances shall be identified prior to their initial purchase.
- 13. Ample spill response materials shall be available to deal with any potential hazardous and special waste releases.
- 14. All containers used and stored on the site must have proper labels.
- 15. Debris and solid wastes generated during any activity shall be collected & disposed regularly at the designated place and the combustible materials shall be controlled fired under direct supervision of OPGC Fire or Safety Officer. It shall not be dumped /thrown here and there.
- 16. Tree trimming and pruning wastes shall be kept sufficiently away from plant. Steps shall be taken to dispose these to outside agencies to avoid unwanted fire.
- 17. Carry bags made of virgin or recycled plastic, which are less than 20 micron thick, are not allowed to be used in ITPS.
- 18. Energy efficient products (eco marked products) will be preferred for use insideITPS.
- 19. Goods packing material shall be bio degradable and environmental friendly material.
- 20. All chemicals shall be procured with its material safety data sheet (MSDS). The MSDS shall remain with the chemical for its entire period of stock inside OPGC.
- 21. Hazardous chemicals or substances in bulk transport will come with MSDS, TREM Card, hazard labeling of the lorry and containers. The transporters staffs/ staff shall be properly trained on emergency handling of the chemical.
- 22. Emergency preparedness shall be in place to handle chemical emergency or any other hazardous material emergency so as to prevent risk to environment.
- 23. Vehicular emission and noise shall be minimized in work zones by restricting use of defective vehicles, machineries and Tools & Plants.
- 24. Vehicles shall be certified with valid pollution under control certificate.
- 25. Source air emissions shall be controlled so as to meet regulatory norms. Incase of incidental higher emission level, immediate control measure shall be taken on priority. Continuous emission monitoring for Stack SPM, NOx, SO2 shall be made available all time except the period of planned maintenance. Alternative offline monitoring shall be in practice during the period of on line equipment maintenance.
- 26. Fugitive emission shall be controlled in work places (CHP, AHP, ESP, Ash Pond & Dry ash storage silo areas). These places shall be tested for dust concentration periodically to ensure taking step to reduce dust emission level to acceptable state. People working in these areas shall use dust mask to prevent inhaling dust.
- 27. Sufficient water spraying shall be ensured in haul roads and working areas to reduce fugitive emission during earth work by mechanical means.
- 28. While painting any structural materials on ground, the structural materials shall be kept on any impervious barrier so as to avoid land contamination by paints.

- 29. Use of Ozone Depleting Substance (ODS) like CCL4, CFC-11, CFC-12, Halon and other ODS based substances shall be phased out in phased manner. Venting of ODS gas to atmosphere is forbidden. During phasing out process of these substances, these ODS shall not be released to atmosphere. These gases shall be handled as per local regulation guideline. CFC containing equipments like refrigerators and hydrogen driers shall be replaced with non CFC refrigerant containing equipments.
- 30. SF6 consumption shall be managed in such way that there will be no waste or/ and release to atmosphere. The user shall maintain a consumption record covering the equipment name in which the gas is used, quantity and date of use.
- 31. Asbestos ropes and packing shall not be used in any work. No new asbestos sheets shall be used in any work. Before cutting/handling old asbestos sheets, the sheets shall be made wet and handled by using nose mask and hand gloves. Waste asbestos pieces shall be disposed in lined impervious covered pits.
- 32. During construction and maintenance works, melting of Bitumen should be done by using fuel oil / fire wood. In no case burning of rubber tyres will be allowed.
- 33. Smoking is prohibited inside plant.
- 34. Optimum utilization of water, energy and raw materials shall be ensured by minimizing the loss in any activity.
- 35. Spitting on walls is prohibited.
- 36. Preference shall be given for using eco-friendly materials/packing and technology, wherever it is technoeconomically viable.
- 37. Special care shall be given for good housekeeping.
- 38. Non-biodegradable solid wastes like plastic pouches/packing materials shall be disposed in lined impervious covered pits.
- 39. Empty paint drums, brushes shall not be thrown around. It shall be the responsibility of the contractor to dispose it outside ITPS as per the provision of Hazardous Wastes (Management & handling) rule.
- 40. Waste water generated inside plant and sewage effluent shall be reused
- 41. Ground water and surface water adjacent to ash disposal area and coal pile area shall be tested periodically so as to ensure no adverse impact on environment.
- 42. Spillage and disposal of any liquid or solid waste into storm water drains is prohibited.
- 43. Spillage of Chemical or OPGC regulated material shall be reported to Manager (Environment) within 01 hour of the incident occurs.
- 44. For safe Handling and Transportation of Hydrogen, Chlorine, Petroleum Products and other Chemicals please MSIHC rule.
- 45. Any noisy operation more than 85dBA shall be carried with the use of appropriate noise abatement barrier. Wherever barrier cannot be provided, the person nearby must have ear protection.
- 46. Environmental monitoring equipment that has been originally designed and installed must be satisfactorily maintained and continually operated (with the exception of standard downtime for planned or unplanned maintenance).
- 47. Any abnormal environmental incident observed/ noticed shall be communicated to EHS

INTEGRATED MANAGEMENT SYSTEM POLICY



Occupational Health & Safety, Environment, Quality and Energy Policy

Odisha Power Generation Corporation Limited., at Ib Thermal Power Station (ITPS), Banharpali, Jharsuguda, committed to satisfy its stakeholders and strive to establish itself as a world class power utility company by maintaining safe & healthy, green & clean environment in and around the plant generating quality power in an energy efficient manner.

In order to achieve the same, we are committed to

- Provide safe & healthy working condition by preventing work related injury and ill health through elimination of hazards and improvement of occupational health & safety performance including preparedness to respond to emergency situation with a believe to "Put Safety First at OPGC & All Occupational incidents are preventable";
- Ensure consultation and participation of workers to drive system improvements to adopt "Zero Tolerance" on OPGC Safety cardinal Rules.
- Comply with applicable legal, regulatory & other requirements pertaining to occupational health & safety, environment, products and Energy
- Empower everyone to stop & report any work when there is a reasonable belief that the work poses imminent risk of injury
- Be responsible for own safe behaviours & those of co-workers
- Protect the environment and prevent pollution by reducing emission and waste through efficient use and conservation of resources as well as reuse & recycle of waste
- Generate reliable and quality power by conforming to standard as laid down by statutory authorities and customer requirement and enhance customer satisfaction through improvement in business excellence
- Enhance energy performance by reducing specific consumption, controlling energy losses, supporting design & procurement of energy efficient products & services and by making information & resources available to meet objectives & targets
- Impart awareness and necessary competence through training to all working for or on behalf of OPGC for achieving conformity to product, safe working condition, protection of environment and conservation of energy; and to recognise outstanding performer
- Improve Continually the performance of Occupational Health & Safety, Environment, Quality, and Energy Management Systems
- To Support & promote employee wellbeing including a healthy work-life balance through work practice, a positive culture and leadership
- Communicate this policy to all stakeholders

Reviewed on: 01.07.2023

Manas Ranjan Rout Occupier & Director (Operation), OPGC

Banharpali, Dist.: Jharsuguda, Odisha - 768 234.

APPENDICES- 2 OPGC High Risk Activities

	Activity
1	Activities on or near equipment with the potential to cause Arc Flash
2	Activities in a road way with potential to be struck by vehicles (Does not include driving or travelling on a public road way.)
3	Activities with drowning potential
4	Activity involving work at height above 1.8 meters (6 feet) and any pole climbing
5	Handling of hazardous substance which can cause acute injury, exposure to ionization sources or potential to cause explosion
6	Activities with potential for live voltage exposure \geq 50 Volt
7	Activities on or around pressurized safety valves or other energized energy relief devices where there is the possibility of exposure to the stored energy if released
8	Hoisting and Rigging
9	Hot Work outside of its designated locations
10	Activities involving Confined Space entry or potential for entrapment/engulfment such as work inside a trench, tunnel, etc.
11	Tree trimming and related activities with the potential to cause injury by tree trimming equipment and / or hit by falling tree or limb
12	Activities involving operation of or working in the vicinity of operating plant equipment
13	Activities in potential explosive areas due to accumulation of combustible dust or vapor
14	Activities on or near rotating, rolling or moving equipment or its parts having the potential to cause cut, entrapment, crushing or caught by injuries
15	Activities with the potential to cause a hit by falling objects

APPENDIX-3 OPGC HSE RULES AND REGULATIONS

FOR CONTRACTORS

UNDERTAKING

I hereby undertake that:

(1) I have received a copy of, and read, these regulations;

- (2) I agree to execute the work under all provisions contained herein;
- (3) I understand & will make my entire project team understands the applicable rules & regulations;

Signature	
Name :	
Date:	

Contract Company:

APPENDIX-4

		EHS Violation Record for Contractor		
Ib Thermal Power Station, Banaha	rpali			
Name of Violator:				
Location of Violation:				
Type of Violation:				
Contractor's Name	Signature			
Observer's Signature Name	Signature			

Revision Control & Approval

Revision control of the document

SI. No.	Page	Revision From	Date	Revision To	Date	Revision Description
1	All	-	-	00	03.07.2023	Brought under document control Procedure of
						Integrated Management System

Approval of the document

Prepared By	Reviewed By	Issued by	Approved By
Dept. Team Members	Head-EHS	IMS Coordinator	Plant Manager



TECHNICALSPECIFICATIONS, SCOPE OF WORK& TERMS & CONDITIONS

NAMEOFWORK:Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash Pond-A & C.

Scope of Work:

Site Preparation:

Clear the designated area of debris, and any obstacles that may hinder the dozer's operation.

Material Spreading:

Utilize the Dozer D155 to evenly spread the specified material (e.g., soil, ash, gravel) across the designated surface and ramp road.

Levelling:

Ensure uniformity and smoothness by using the dozer for precision levelling of the spread ash.

Compaction:

Employ the Dozer D155 to compact the material thoroughly, achieving the desired density and stability.

Quality Checks:

Periodically inspect and assess the compacted surface to guarantee compliance with project specifications.

Adjustments:

Make necessary adjustments to the dozer settings or operation to address any unevenness or variations in material thickness.

Safety Measures:

Adhere to safety protocols during all phases of operation, including proper signalling, equipment checks, and compliance with relevant safety regulations.

Documentation:

Maintain detailed records of the spreading and compacting process, documenting any deviations from the planned scope.

Communication:

Regularly communicate with project site supervisor/EIC and team members to ensure alignment with project goals and address any emerging issues promptly.

Site Clean-Up:

Conduct a final check for any leftover debris or material and ensure the work area is left in a tidy and organized condition.

Timing:

Ensure the work to be executed round the clock.

Breakdown:

A stand by dozer to be deployed within 24 hours of the operational dozers breakdown.

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<u>Scope of Work: Excavation of Ash and Trench Cutting, Loading into Hywas</u> Site Preparation:

- Clear the work area of any obstacles or debris.
- Ensure proper safety measures are in place, including the installation of barricades and warning signs.

Excavation of Ash:

- Excavate ash from the designated areas as per project requirements.
- Use appropriate excavation equipment for efficient and safe ash removal.
- Follow environmental regulations for the disposal of ash. Trench Cutting:
- Cut trenches to the specified dimensions and depth as per project drawings and requirements.
- Ensure precision and accuracy in trench cutting to meet project specifications. Loading into Hywas:
- Optimize loading processes for efficiency and minimize downtime.
- Ensure proper handling and transportation of loaded materials to designated disposal **Safety Measures:**
- Implement and adhere to all safety protocols and regulations during excavation and loading activities.
- Conduct regular safety meetings and training for personnel involved in the project.
- Provide necessary personal protective equipment (PPE) for all workers. Environmental Compliance:
- Comply with local environmental regulations regarding the handling and disposal of excavated materials.
- Implement erosion control measures to prevent soil erosion and environmental damage. Quality Assurance:
- Monitor and maintain quality standards throughout the excavation and loading processes.
- Conduct regular inspections to ensure that work meets project specifications. **Project Schedule:**
- Develop and adhere to a project schedule outlining key milestones and deadlines.
- Communicate any potential delays or issues promptly to project stakeholders. **Documentation:**
- Keep detailed records of daily activities, including quantities of excavated materials and loading operations.
- Prepare progress reports as requirement. Project Completion:
- Ensure the work area is cleaned and restored to its original condition upon completion.
- Obtain final inspection and approval from project authorities.
- Timing:
- Ensure the work to be executed round the clock. **Breakdown:**
- A stand by excavator to be deployed within 24 hours of the operational dozers breakdown.

Terms and Conditions of Contract:

1.0 Taxes & Duties and Statutory Deductions:

Income tax & any other taxes, duties & levies and statutory dues as applicable shall be deducted from your bills at the rate ruling at the time of payment of bills.

2.0 Contract Period:

The contract period shall be 06 months from the date of issue of LOI/ WO

3.0 Payment of bill:

Payment after statutory deductions and other deductions like applicable taxes, duties, leviesetc. shall be released against submission of monthly RA bills duly certified by the Engineer-in-charge. The payment shall be made through e-mode facilities of RTGS / NEFT / Internet Banking. To facilitate the E-payment you shall return the enclosed Bank Mandate Form duly filled, along with the duplicate copy of the Work Order. All other terms are as per NIT.

4.0 Permit to Work:

Before the start of each work, you shall ensure that a valid and duly signed Permit to Work has been issued. Also, you shall ensure the issue of valid and duly signed Confined Space permit and Hot Work Permit if the same is required as per OPGC rule. All the permits shall be returned to the concerned Engineer after completion of the job.

5.0 Works Programme/Quality Assurance Plan /Safety Plan:

Before starting the work, you shall submit detailed works programme, milestone of different activities, safety and quality assurance plan of the work to the Engineer-in-charge for his approval after which work shall be started as per the approved programme. Any other documents required by the Engineer-in-charge for the above work shall be submitted.

6.0 Before commencement of the work, you shall obtain a Group Insurance Policy covering employment accidental benefit in respect and furnish a copy of the same to the Engineer-in-charge.

7.0 Termination of contract:

- a) In case of failure to start the work within due date, OPGC reserves the right to terminate the contract without reference to you.
- b) If the quality of the work is found to be unsatisfactory, the contract shall be terminated with immediate notice.
- c) OPGC has the right to terminate the Contract at any point of time.

8.0 Subletting:

The work shall not in any manner or degree be sublet. The work shall be executed under the direct supervision of the supervisors of your firm.

9.0 Indemnity:

You shall keep OPGC indemnified from all liabilities resulting out of this contract and act of your workmen.

10.0 Offloading of job:

In case it is observed during the tenure of the contract that you are not capable or in a position to complete the job, OPGC reserves the right to offload the same and get it done through other agencies at your cost and risk.

11.0 Safety, Health, Environment:

- a) Your service personnel shall abide by all safety norms of OPGC as per enclosure and obtain safety induction training from OPGC Safety Officer before starting the work. Any violation in the safety rules shall be viewed seriously and you shall be penalized as per OPGC Safety Rules.
- b) You shall ensure the medical fitness of your service personnel before start of work.
- c) You shall submit Safety Plan of the work to the Engineer-in-charge before start of the work.
- d) While driving two wheelers inside the plant boundary Crash Helmet to be used positively. Violation of this rule will attract penalty.

12.0 Security Management Procedure:

- a) Entry Permit/Gate Access Card shall be issued to the contractor employee free of cost and to be displayed in person whenever they are inside ITPS premises.
- b) At any time if the worker of any contractor leaves the job, it is the responsibility of the contractor or his representative to withdraw his Entry Permit/Gate Access Card and deposit at Security Pass Section.
- c) In the event of expiry of the Contract, the contractor has to deposit the Entry Permits/Gate Access Cards to Security at Pass Section and collect required No Objection Certificate (NOC) for the purpose of Bill Clearance by Finance Department.
- d) Against non-deposit of Entry Permits/Gate Access Cards after expiry of the Contract by the Contractor, penalty @Rs. 300.00 (Rupees Three Hundred Only) per each Entry Permit/Gate Access Card shall be recovered from the Bill of the contractor by Finance Department.
- e) No Final Bill of the contractor shall be released by Finance Department unless No Objection Certificate (NOC) is obtained by the contractor from Security Department against issue/deposit of Entry Permits/Gate Access Cards.

13.0 Dispute settlement:

Any dispute or difference arising out of this contract shall be mutually settled and the decision of the Managing Director, OPGC or his authorized representative shall be final & binding.

14.0 Jurisdiction:

Appropriate Court at Bhubaneswar under the Odisha High Court shall have exclusive jurisdiction over all matters related to this contract.



BLANK PRICE BID

Name of the work: "Engagement of Equipment (Dozer-155 and Hydraulic Excavator-210) in Ash Pond-A & C."

SI. No	Item Description	Unit	Quantity	Unit Rate	Amount	
1	Hiring of Dozer-155 including fuel, operator,maintenance etc complete and engagementfor site work as per direction of EIC. 01 No	HMR	1800			
2	Hiring of Hydraulic Excavator-210 (1.5 Cum Bucket) including fuel, operator, maintenance etc complete and engagement for site work as per direction of EIC 04 Nos	HMR	7200			
	Total Amount:					

Only

In words: Rupees_

Note:

• Bidder has to use the above Price Bid Format failing which Bid will be rejected.