```java
package model.catalog;

import java.text.SimpleDateFormat;

@XmlRootElement(name="order")
public class Order {
    private static final double HST_COST = 0.13;
    private static final double SHIPPING_COST = 5.0;
    private static final double SHIPPING_BUFFER_COST = 100.0;
    private static final SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");

    private List<Item> items;
    private Account customer;
    private double total;
    private double shipping;
    private double HST;
    private double grandTotal;

    private int id;
    private String submitted;

    public Order() {
        this(new ArrayList<Item>());
    }

    public Order(List<Item> items) {
        this(0, items);
    }

    public Order(int id, List<Item> items) {
        this.id = id;
        this.items = items;
    }

    @XmlElementWrapper(name="items")
    @XmlElement(name="item")
    public List<Item> getItems() {
        return items;
    }

    public void setItems(List<Item> items) {
        this.items = items;
    }

    @XmlElement(name="customer")
    public Account getCustomer() {
        return customer;
    }

    public void setCustomer(Account customer) {
        this.customer = customer;
    }

    @XmlElement(name="total")
    public double getTotal() {
        return Utils.round(total, 2);
    }

    public void setTotal(double total) {
        this.total = Utils.round(total, 2);
    }

    @XmlElement(name="shipping")
    public double getShipping() {
        return Utils.round(shipping, 2);
    }

    public void setShipping(double shipping) {
        this.shipping = Utils.round(shipping, 2);
    }

    @XmlElement(name="HST")
    public double getHST() {
        return Utils.round(HST, 2);
    }

    public void setHST(double hST) {
        HST = Utils.round(hST, 2);
    }

    @XmlElement(name="grandTotal")
    public double getGrandTotal() {
        return Utils.round(grandTotal, 2);
    }

    public void setGrandTotal(double grandTotal) {
        this.grandTotal = Utils.round(grandTotal, 2);
    }

    @XmlAttribute(name="id")
    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    @XmlAttribute(name="submitted")
    public String getSubmitted() {
        return submitted;
    }

    public void setSubmitted(String submitted) {
        this.submitted = submitted;
    }

    public void setSubmitted(Date submitted) {
        this.submitted = sdf.format(submitted);
    }

    public synchronized void computeGrandTotal() {
        this.setGrandTotal(this.getTotal() + this.getHST() + this.getShipping());
    }

    public synchronized void computeTotalHST() {
        this.setHST((this.getTotal() + this.getShipping()) * HST_COST);
    }

    public synchronized void computeShipping() {
        if (this.getTotal() > 0 && this.getTotal() <= SHIPPING_BUFFER_COST) {
            this.setShipping(SHIPPING_COST);
        } else {
            this.setShipping(0.0);
        }
    }

    public synchronized void computeTotalCost() {
```

```java
        double total = 0.0;
        for (Item it: this.getItems()) {
            total += it.computeTotalPrice();
        }
        this.setTotal(total);
    }

    public synchronized void computeAllCosts() {
        this.computeTotalCost();
        this.computeTotalHST();
        this.computeShipping();
        this.computeGrandTotal();
    }

    public synchronized void clearCart() {
        this.items.clear();
    }

    public synchronized void clearOrder() {
        this.clearCart();
        this.computeAllCosts();
    }
}

```